



# Collector

*Field Data Collection Training Session  
Resource Advisor (READ) Training*



N-9042

Atlanta, Georgia

February 12, 2020

# Applications

- Collector for ArcGIS
- Survey123 for ArcGIS



Collector and Survey123 work with ArcGIS Online (AGOL).

<https://doc.arcgis.com/en/arcgis-online/reference/what-is-agol.htm>

<https://www.esri.com/about/newsroom/insider/what-is-collector-for-arcgis/>

<https://www.esri.com/en-us/arcgis/products/survey123/overview>



# Devices

- Mobile phones, tablets
- iOS, Android, and Windows



Device Requirements:  
<http://doc.arcgis.com/en/collector/overview/requirements.htm>



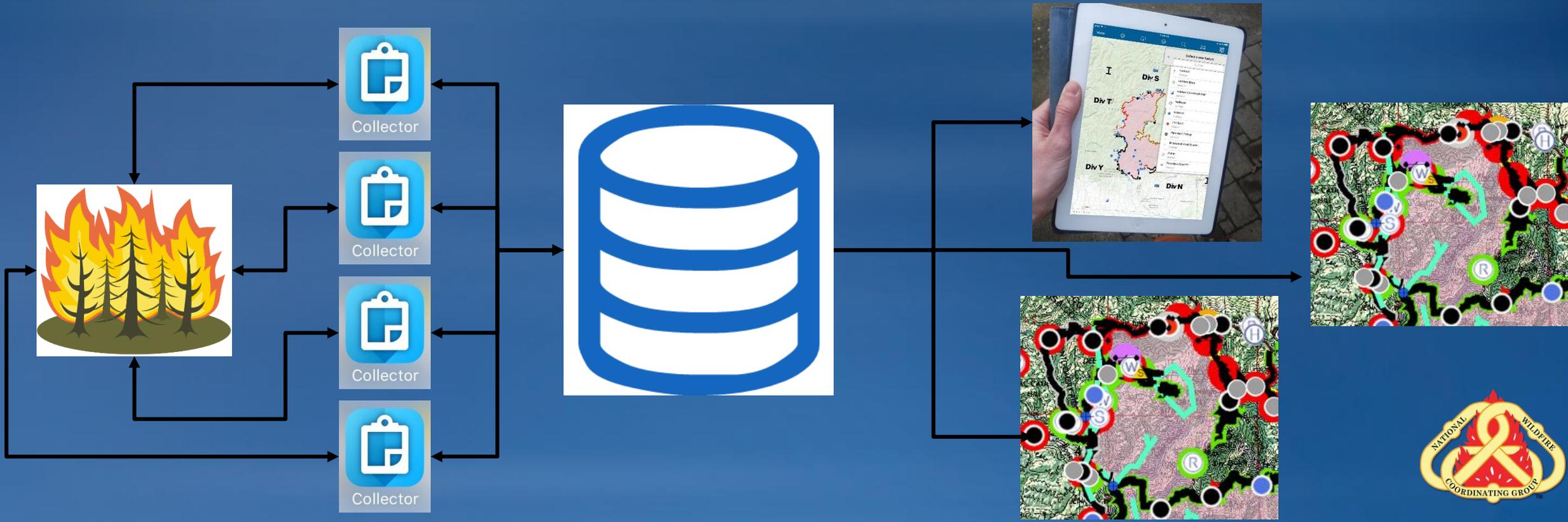
# Why Collector?

- Helps the GIS with data Management
- Singular Data Source
- Near Real time data
- Integration with ArcMap/ArcPro and ArcGIS Online



# Why Collector?

- Fast turn around
- Operations and Rehab
- Integration with AGOL



# AGOL Accounts

NATIONAL PARK SERVICE  
ArcGIS Online for the National Park Service

Gallery Map Scene Groups **Sign In**

**U.S. FOREST SERVICE**  
Caring for the land and serving people

Alaska Region Career Adventure  
US Forest Service Interactive Forest Visitor Map  
7 Wonders of the Newberry National Volcanic Monument  
USFS Region 04 Web App Gallery

**Welcome to the U.S. Forest Service on ArcGIS Online**

The U.S. Forest Service is using ArcGIS Online to share maps, data, and applications for use by other federal agencies, partners, and the public. Users can find and use map services published by the Agency, together with their own data, to create web maps and web mapping applications.

[Request Access to USFS ArcGIS Online - Internal Site](#)

NATIONAL INTERAGENCY **FIRE CENTER**

Featured Content

Improving Situational Awareness using NIFC  
National Interagency Fire Center - General Information  
Rules of Behavior for the NIFC AGOL Organization  
#Event GDB and LYR files

Welcome to the NIFC ArcGIS Online site!

The purpose of this site is to provide a common location for online mapping during:

- Active and upcoming wildland incident response
- Prescribed fires
- Fuels treatment planning and data collection, for both prescribed fire or mechanical treatments
- All hazard incident response
- Fire planning and data sharing for wildfire response

[Request a NEW Account](#)

[Request Support](#): password reset, workflow help, troubleshooting, etc.

[What's New In ArcGIS Online - Last Updated April 12, 2018](#)

**\*NEW\* GIS Specialist Training Website**

Click on these icons (links to groups) to access documents, user guides, templates, and examples.

Incident Resources Training Resources Field Resources Outreach Resources Data Layers

<https://nifc.maps.arcgis.com/home/index.html>  
<https://usfs.maps.arcgis.com/home/index.html>  
<https://nps.maps.arcgis.com/home/index.html>





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<https://www.esri.com/en-us/arcgis/products/survey123/overview>

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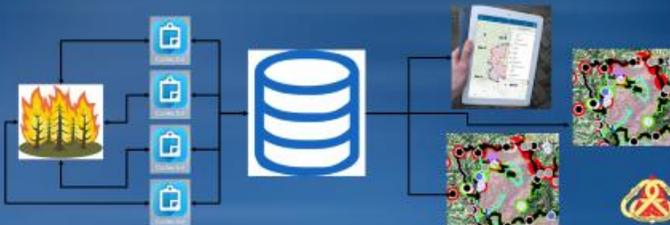
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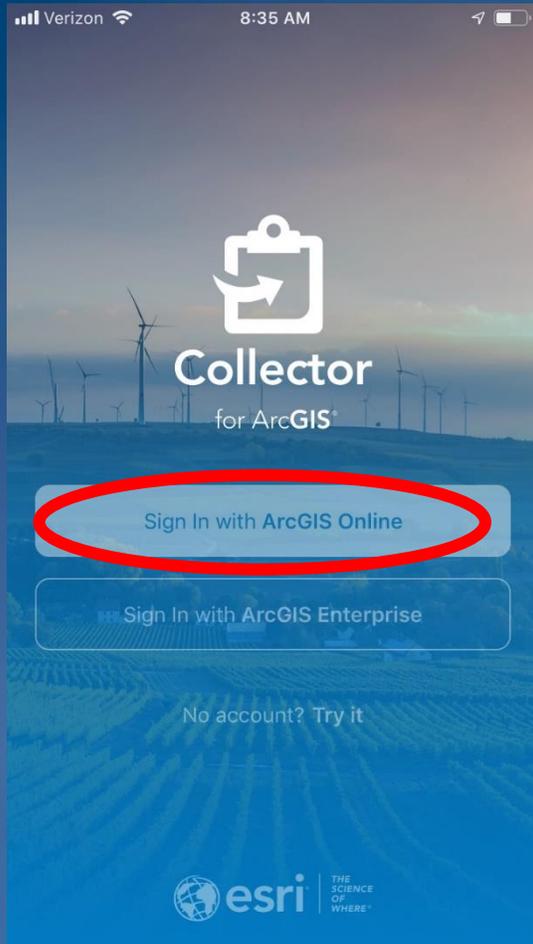
## AGOL Accounts



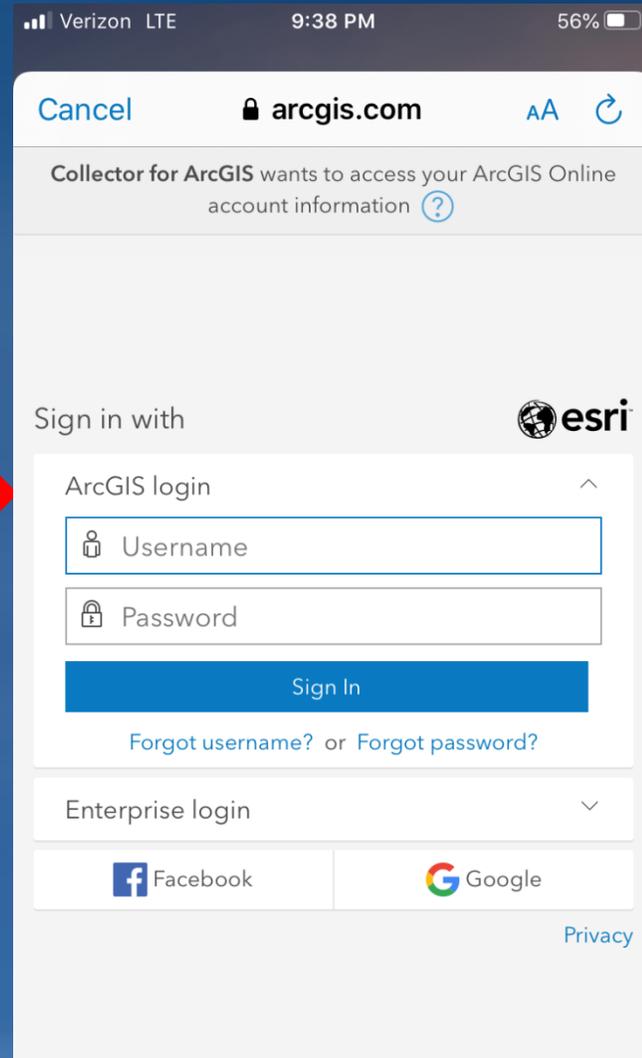
<https://nifc.maps.arcgis.com/home/index.html>  
<https://usfs.maps.arcgis.com/home/index.html>  
<https://nps.maps.arcgis.com/home/index.html>



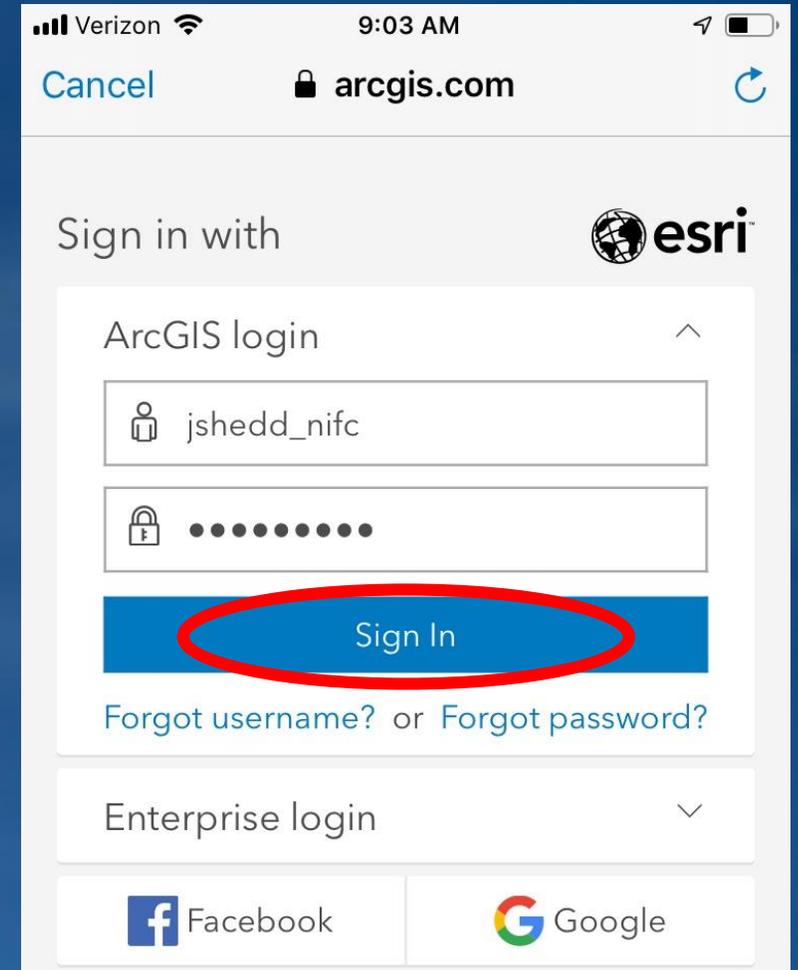
# Collector **Login:** NIFC AGOL



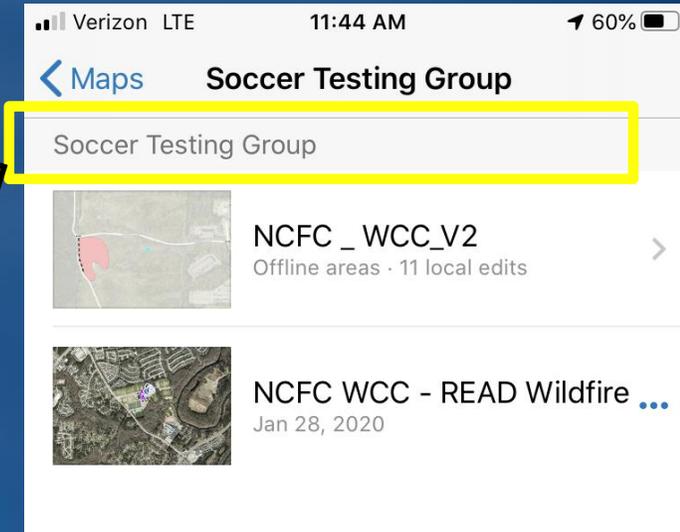
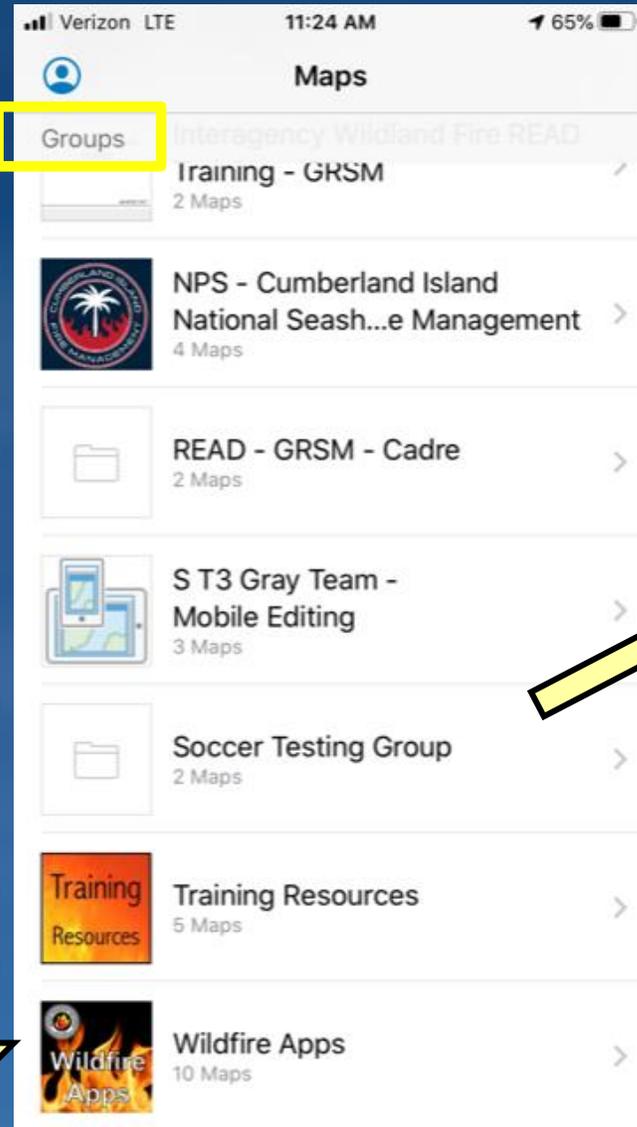
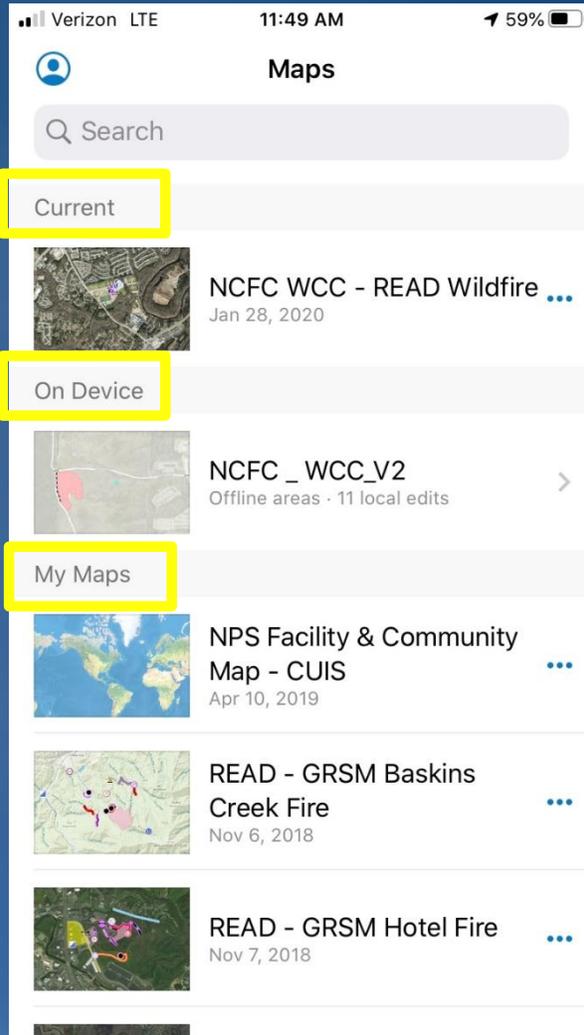
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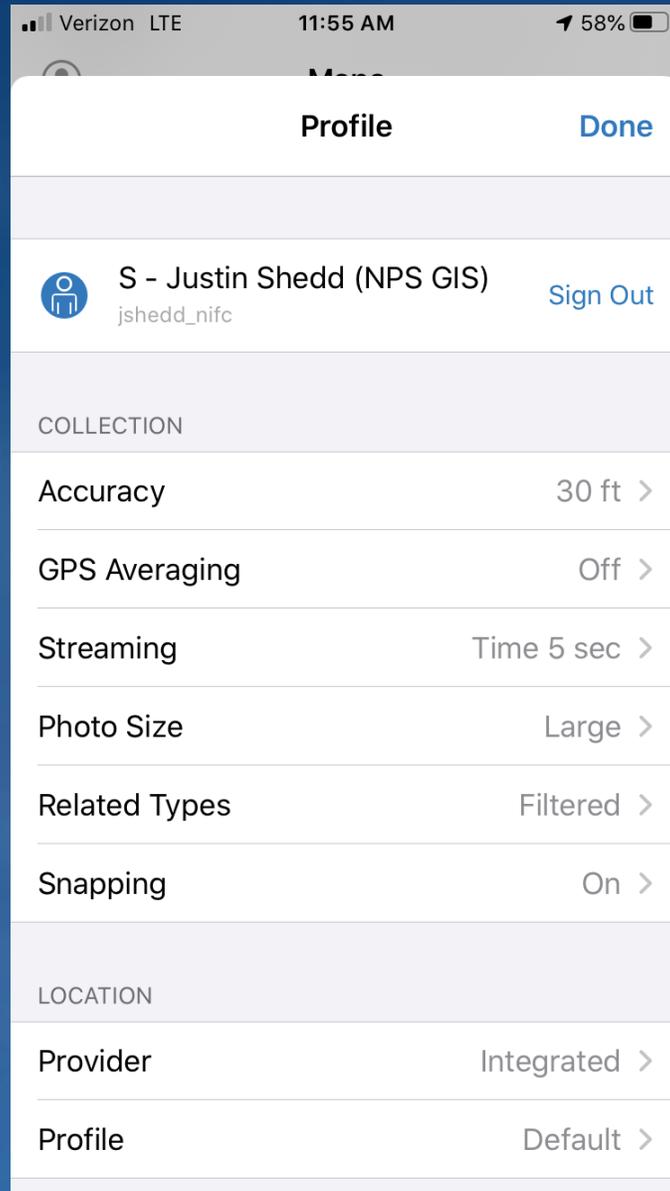
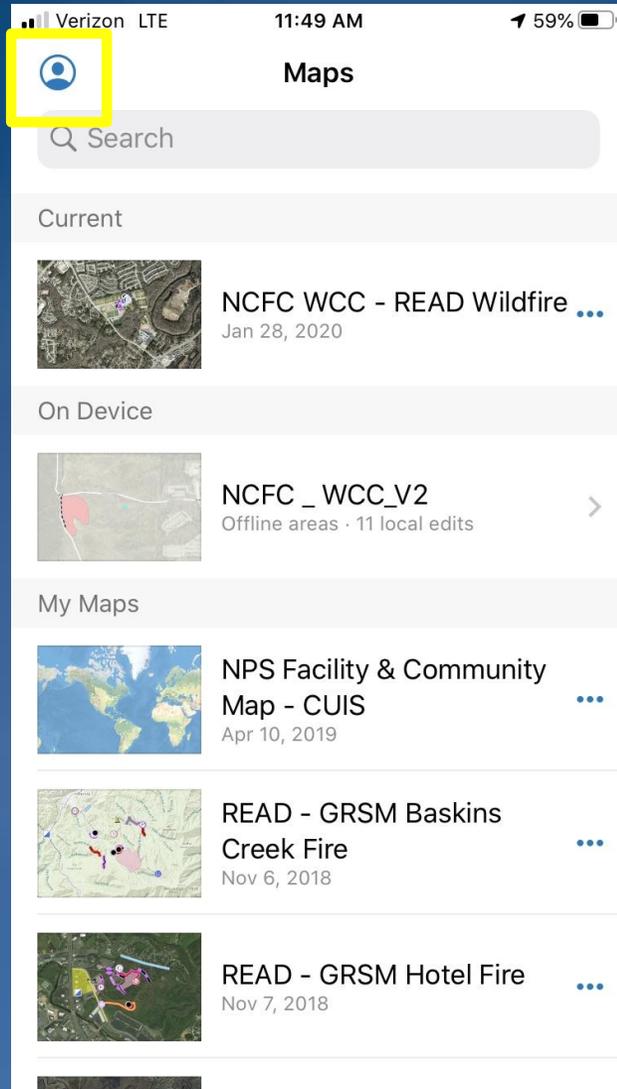
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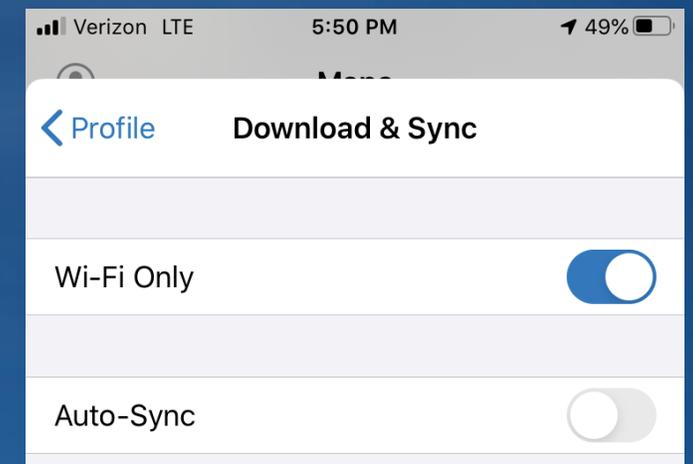
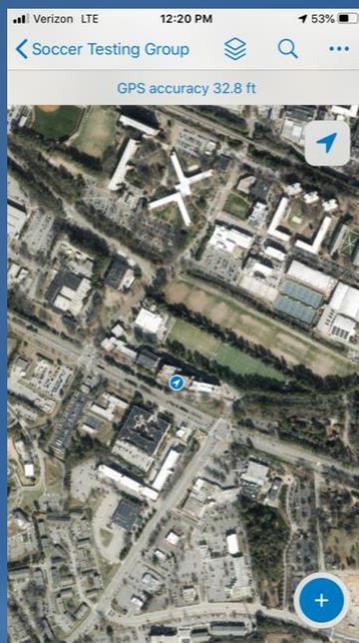
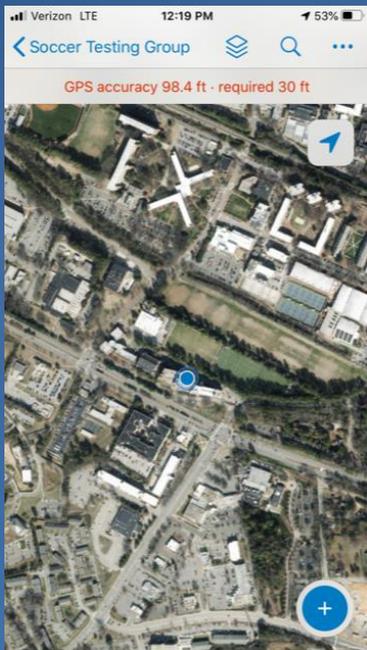
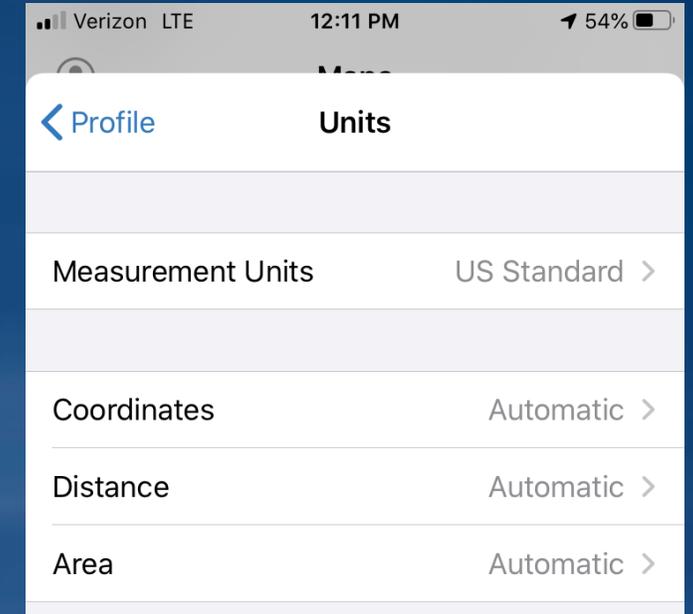
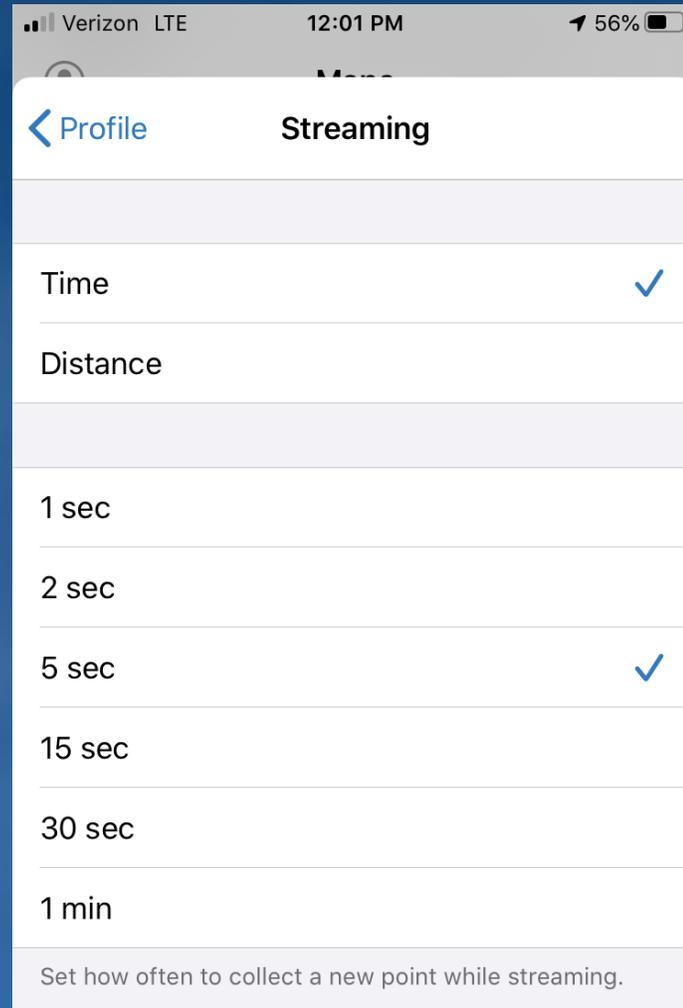
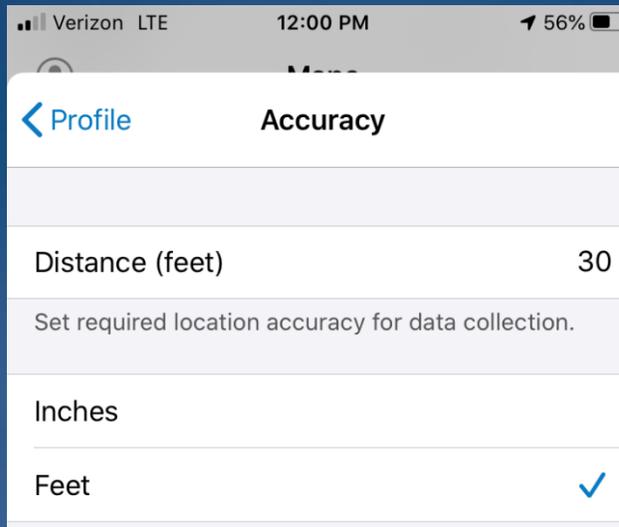
# Collector: Orientation



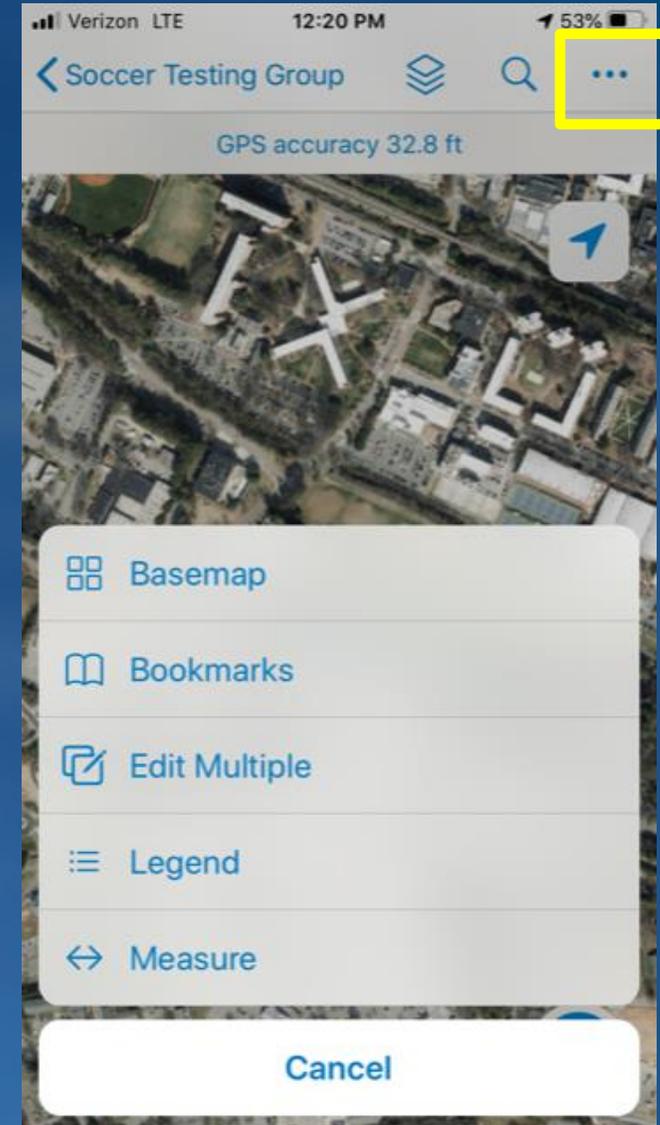
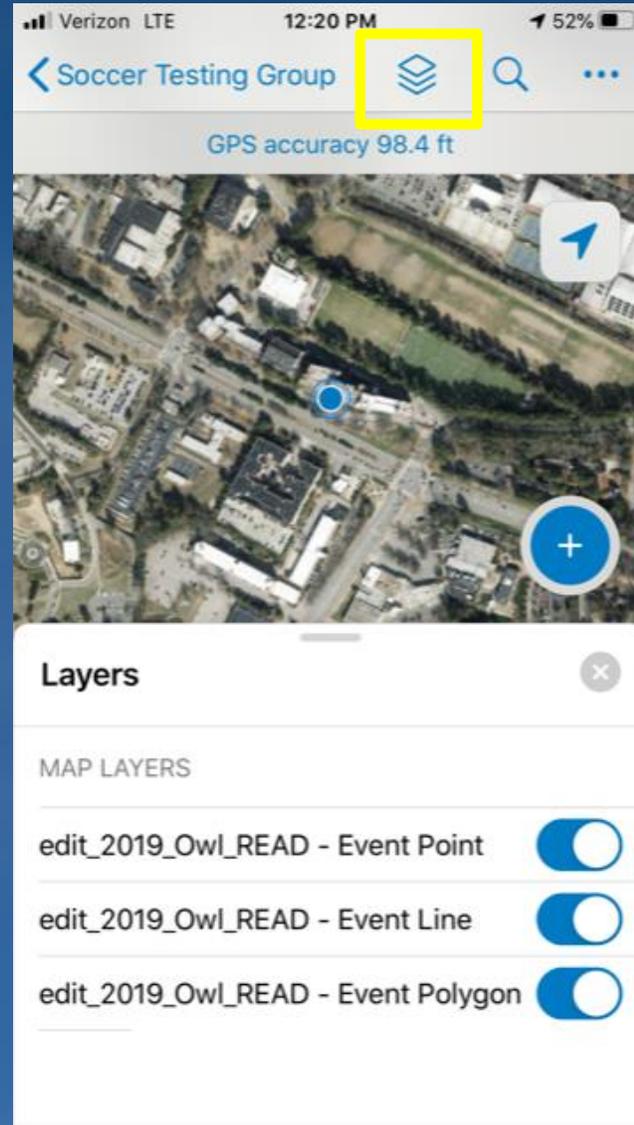
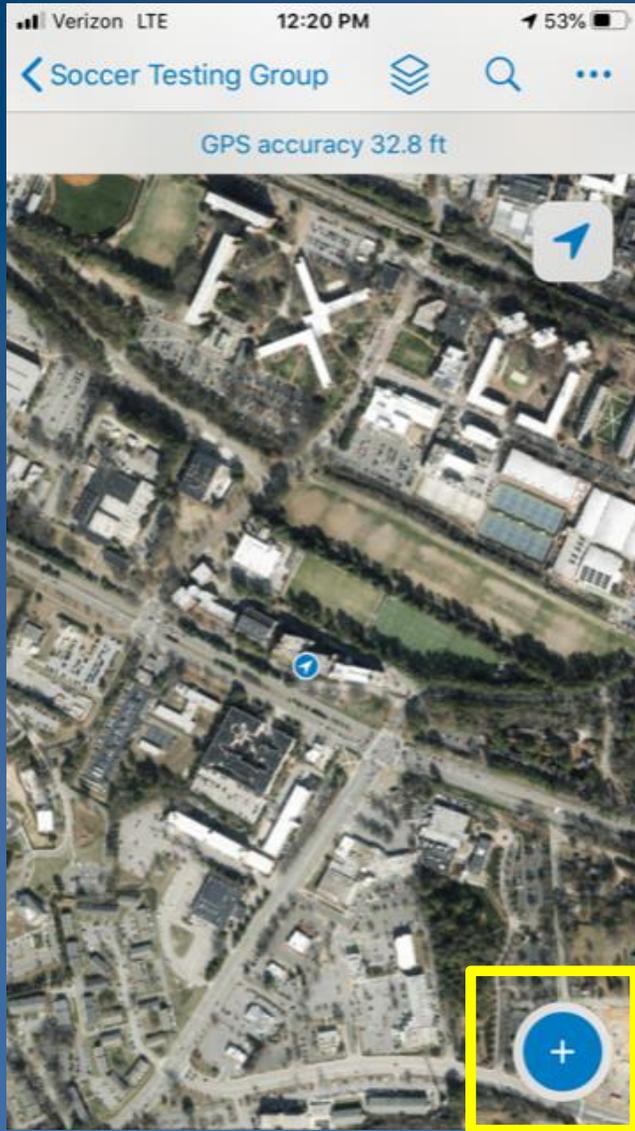
# Collector: Profile



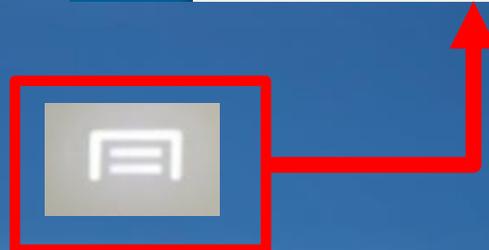
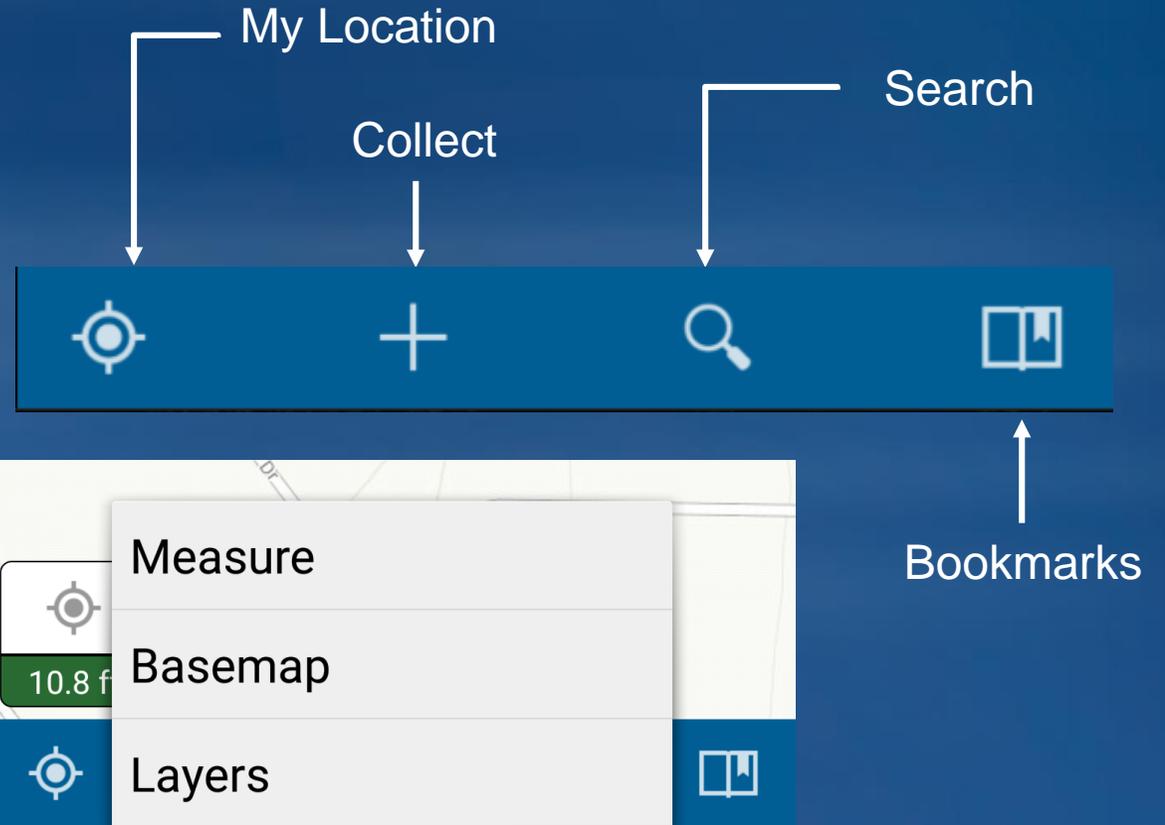
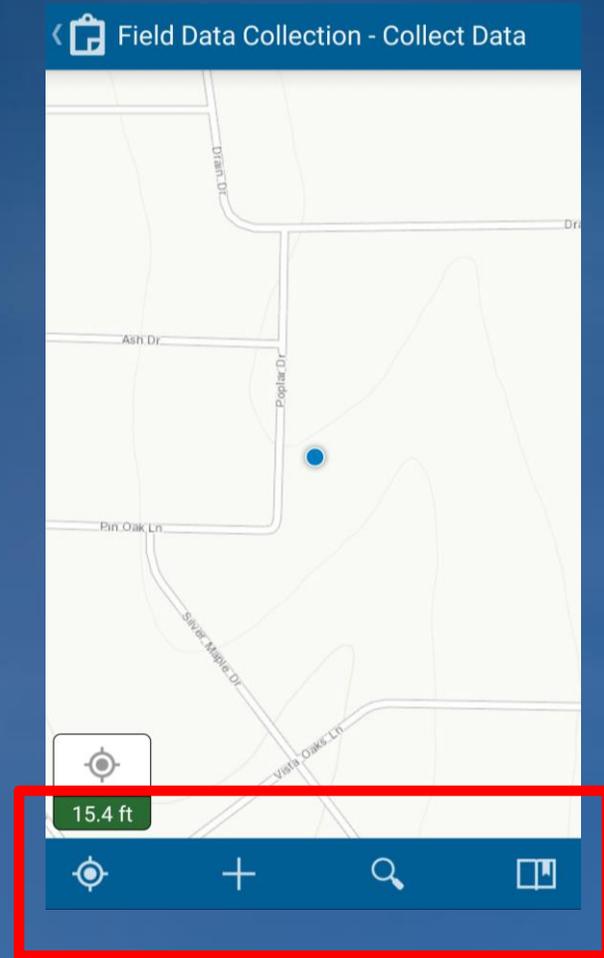
# Collector: Profile, cont



# Collector Basic Navigation - iOS

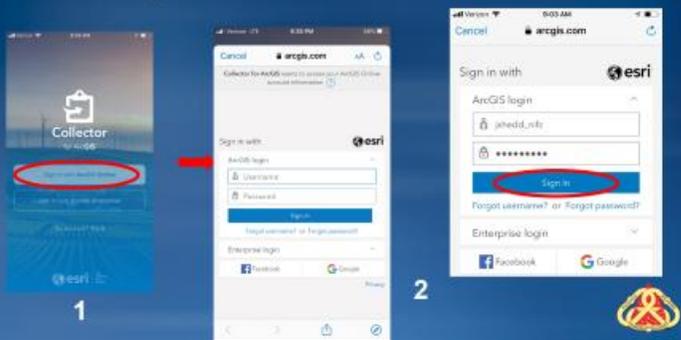


# Collector **Basic Navigation** - Android



# Collector Orientation

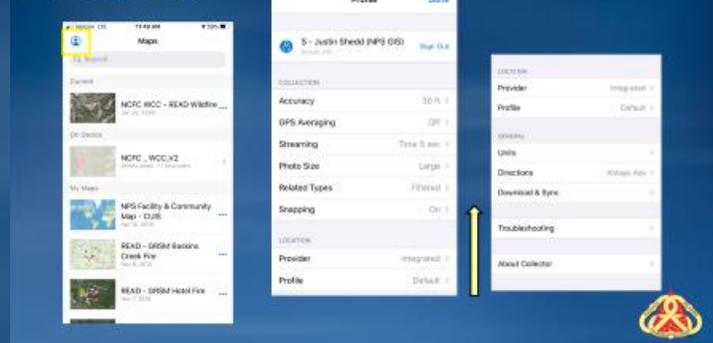
## Collector Login: NIFC AGOL



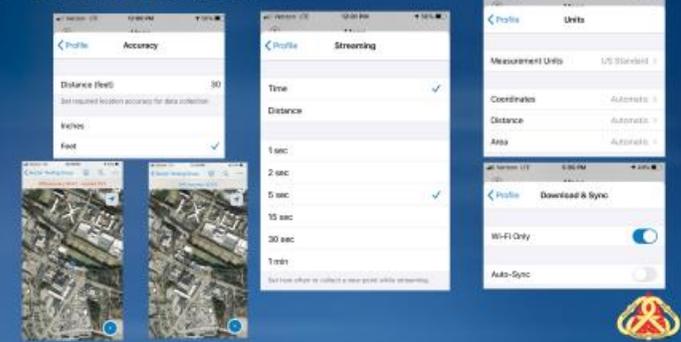
## Collector: Orientation



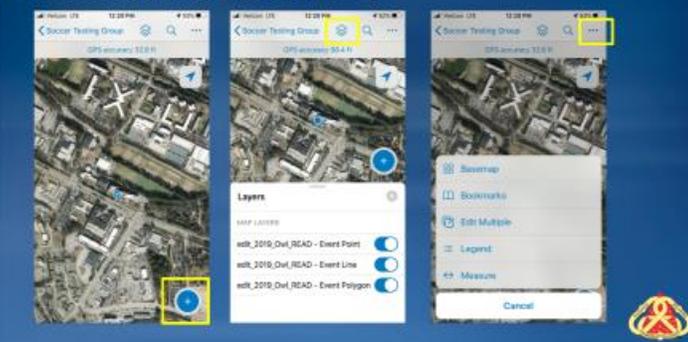
## Collector: Profile



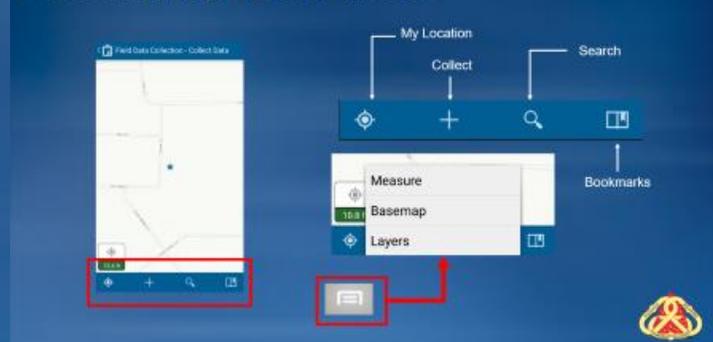
## Collector: Profile, cont



## Collector Basic Navigation - iOS



## Collector Basic Navigation - Android

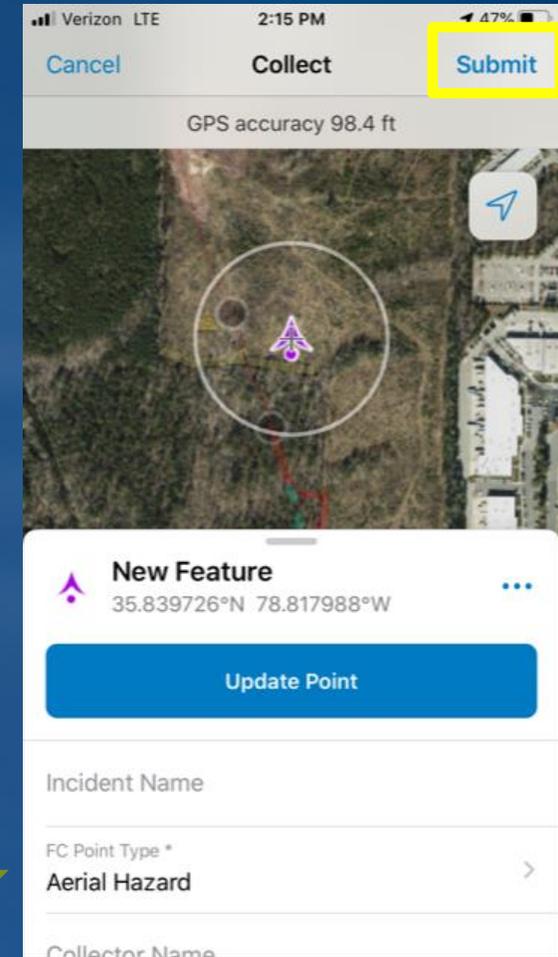
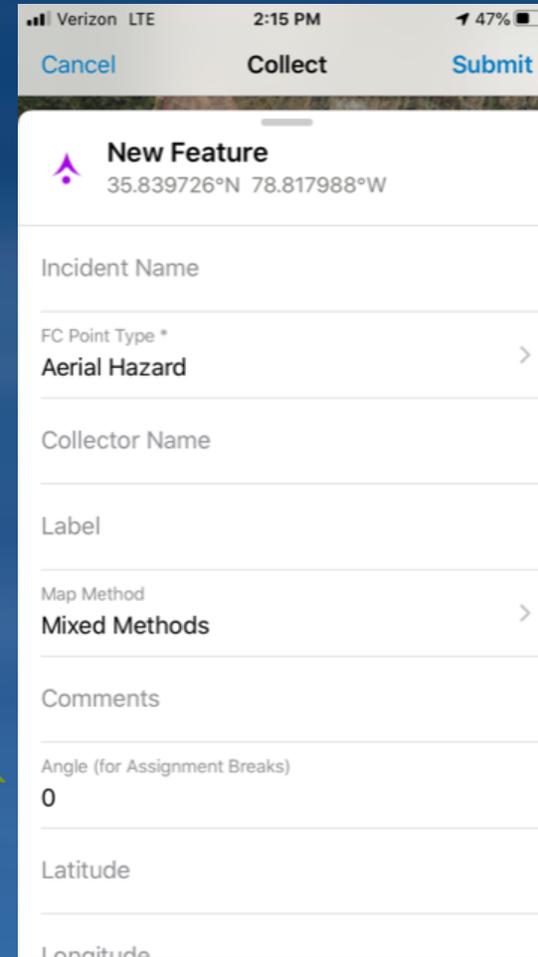
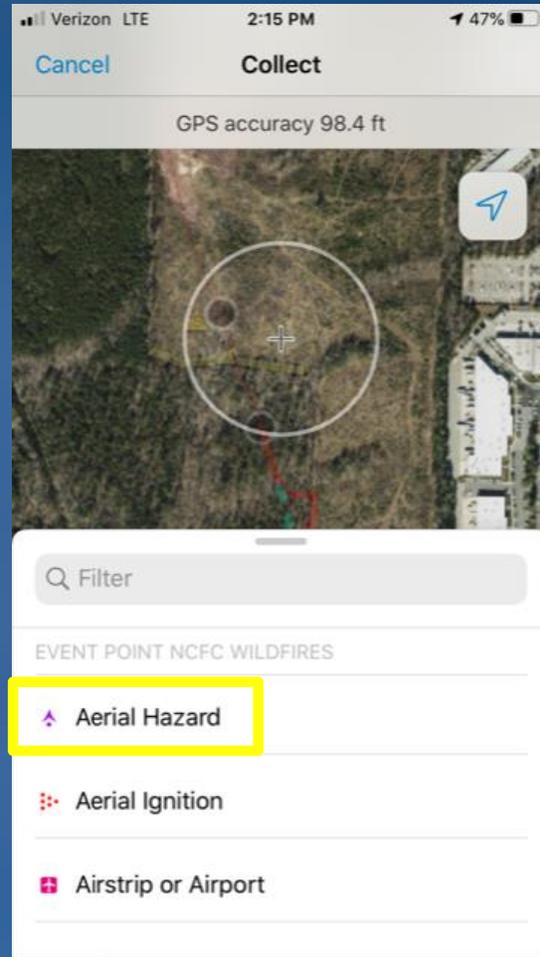
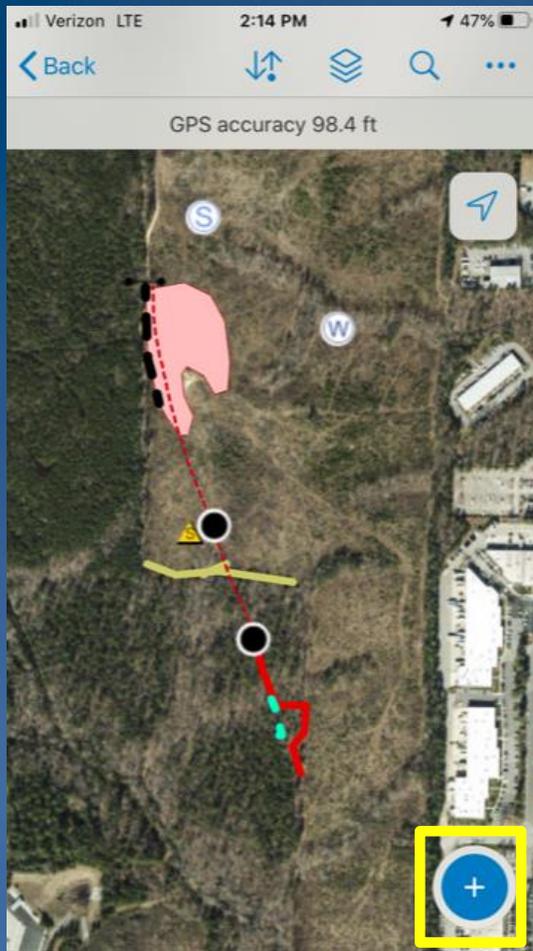


# What kind of data do I collect?

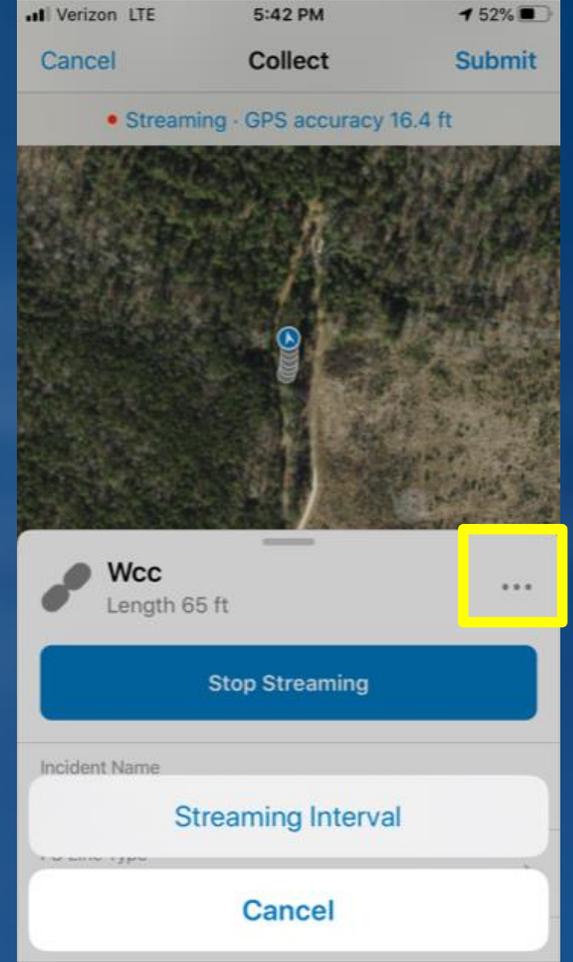
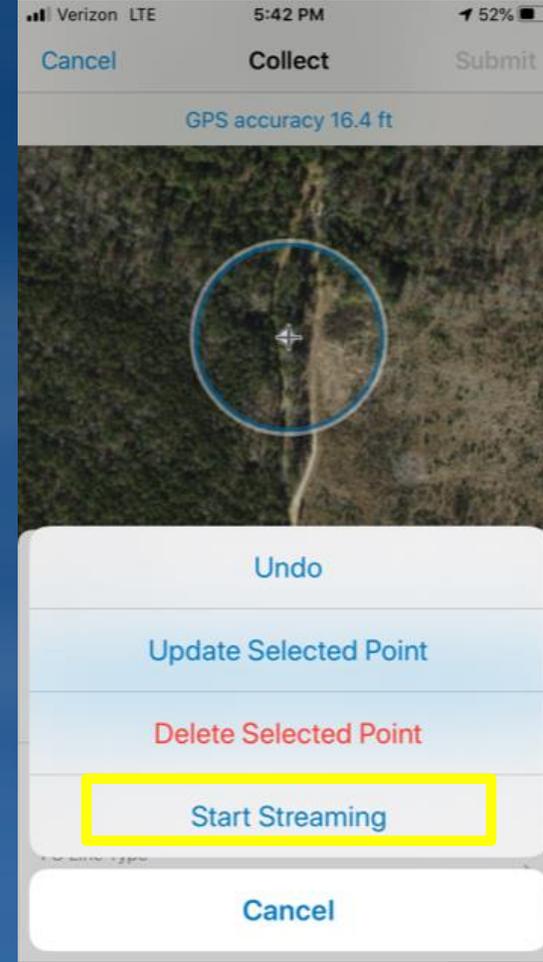
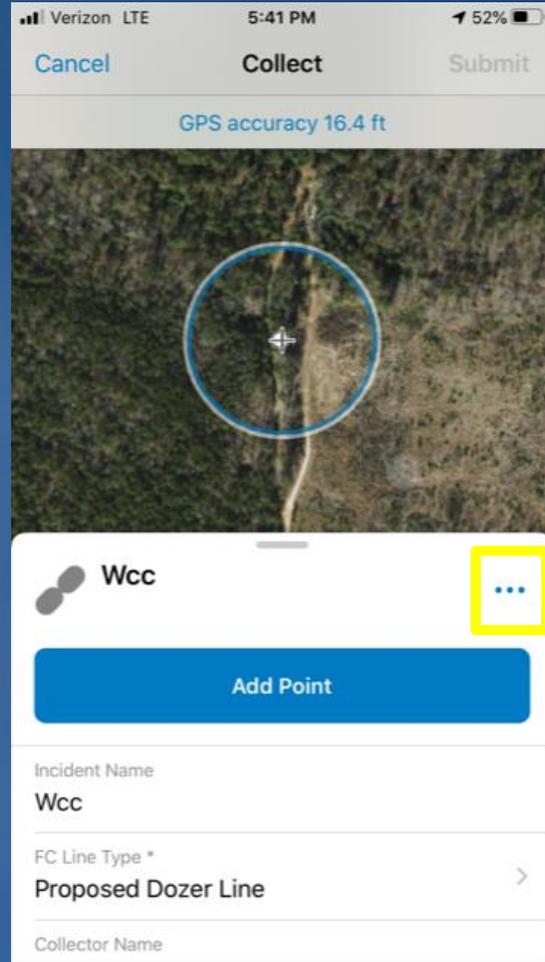
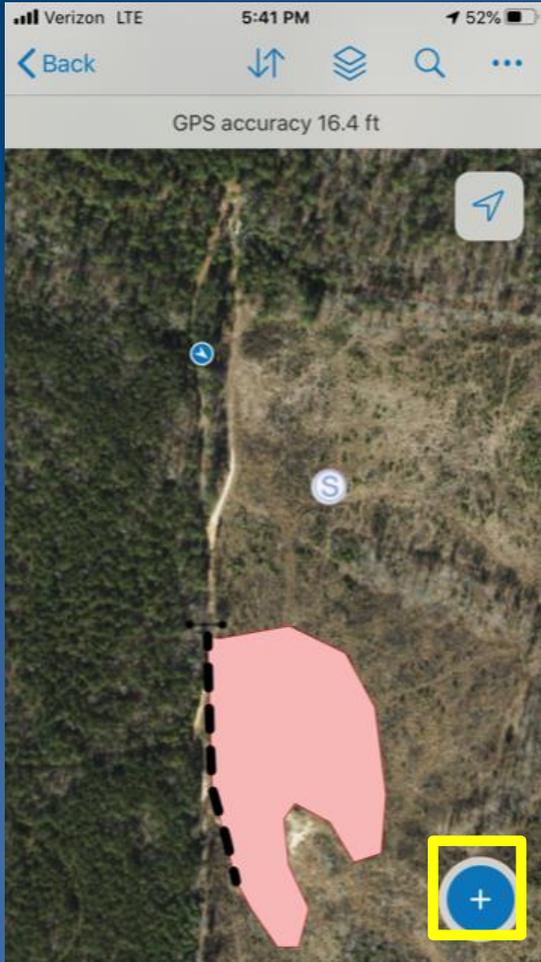
- **Operations versus Rehab**
- **Operations Collects the data**
  - Fireline Type
  - Fire related feature – Helibase, Water Source, etc
- **Rehab adds attributes to data**
  - Rehab status, Rehab comments
- **Rehab Collects new data**
  - What it is and what the Rehab status is



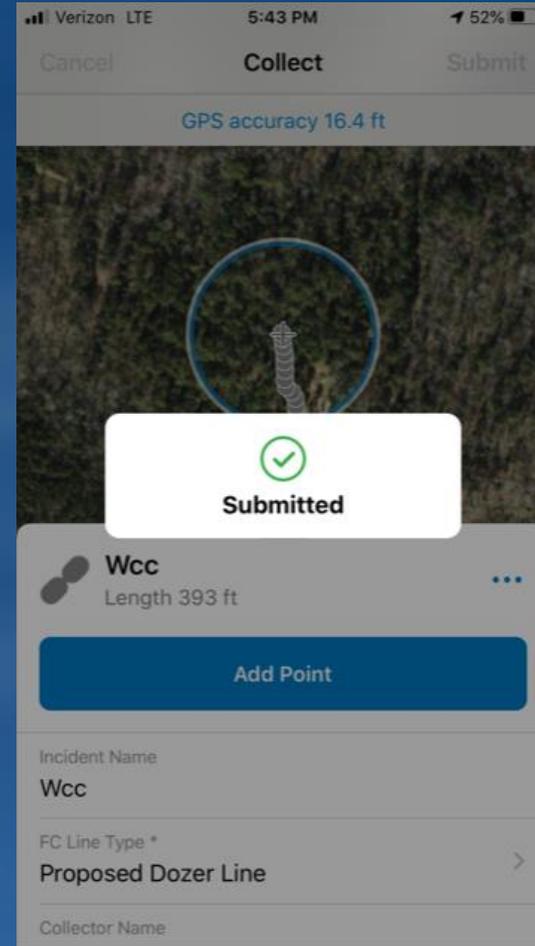
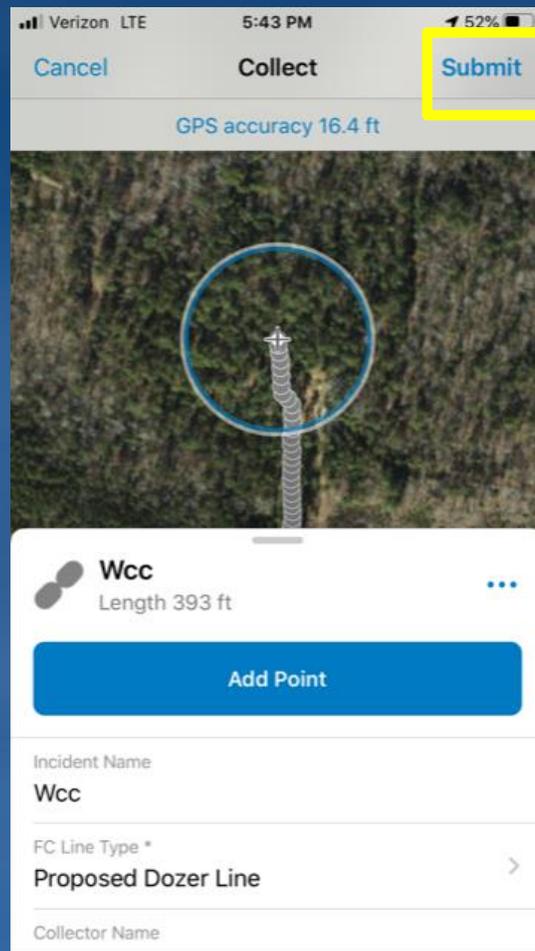
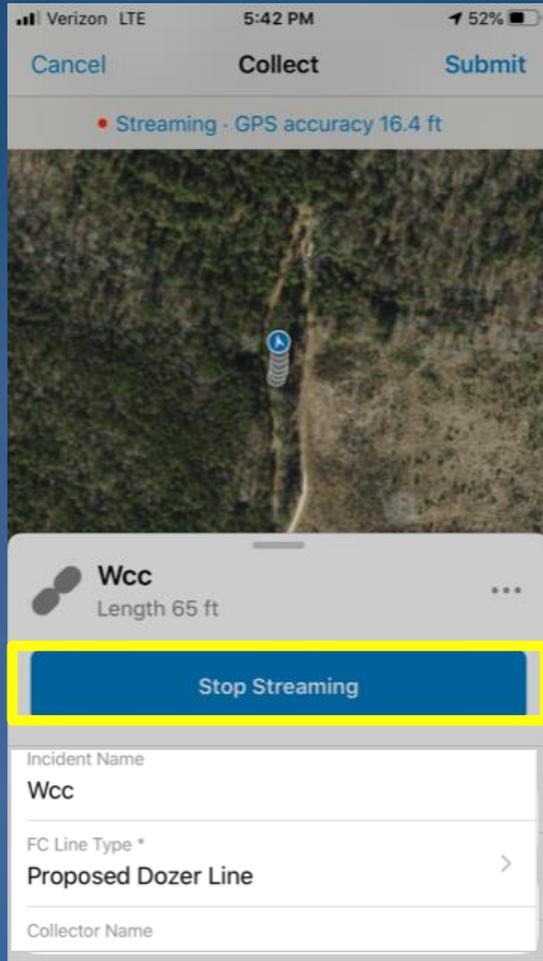
# Collecting Point Features



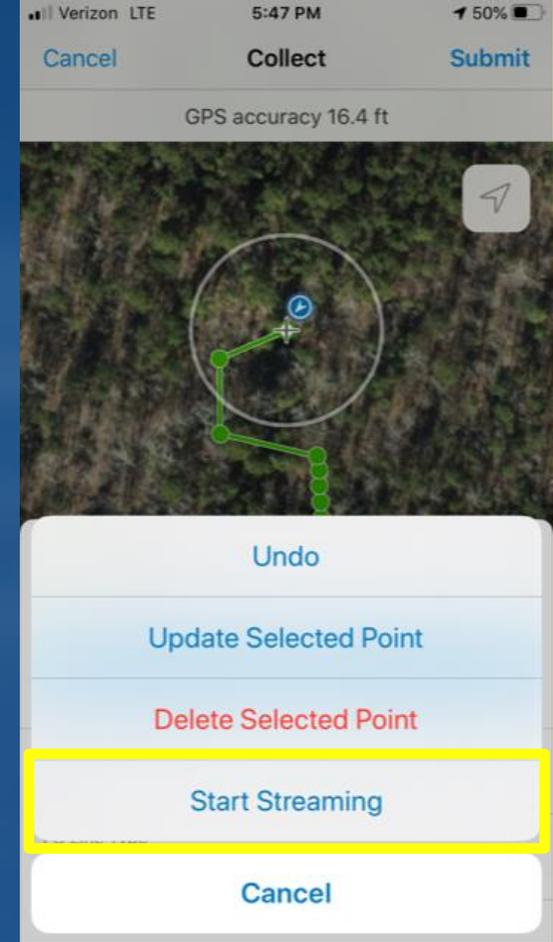
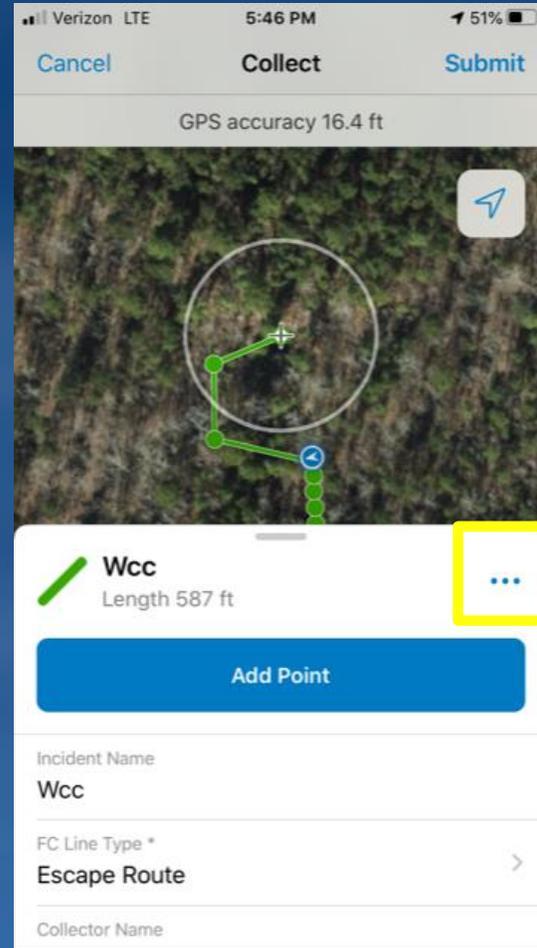
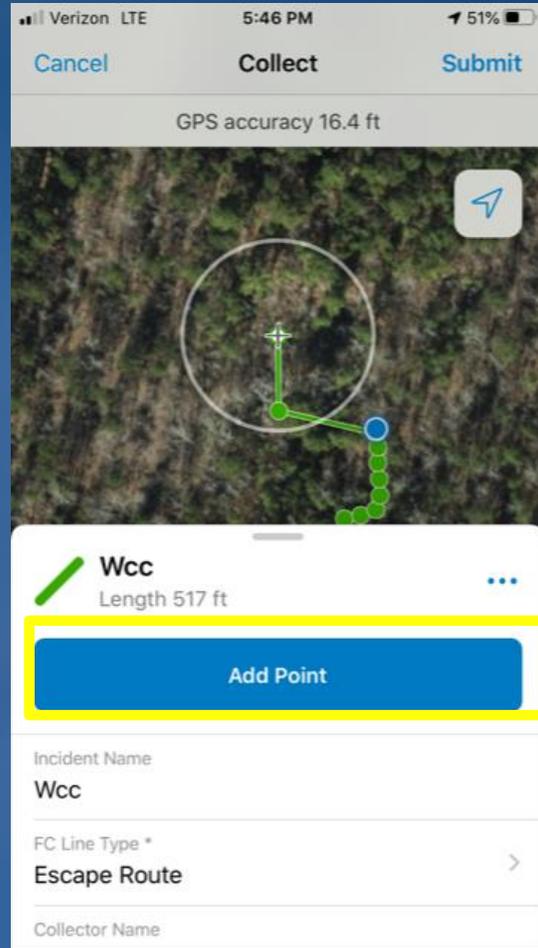
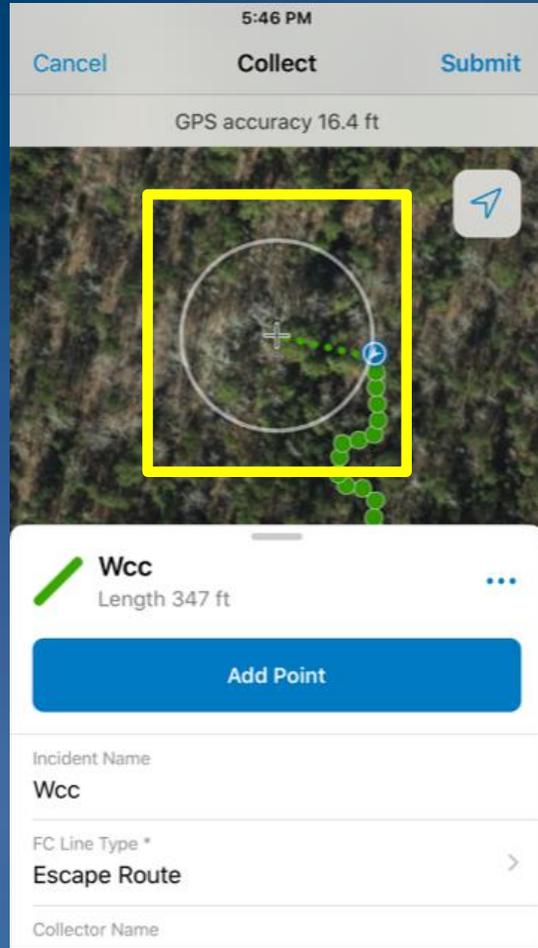
# Collecting **Line** Features



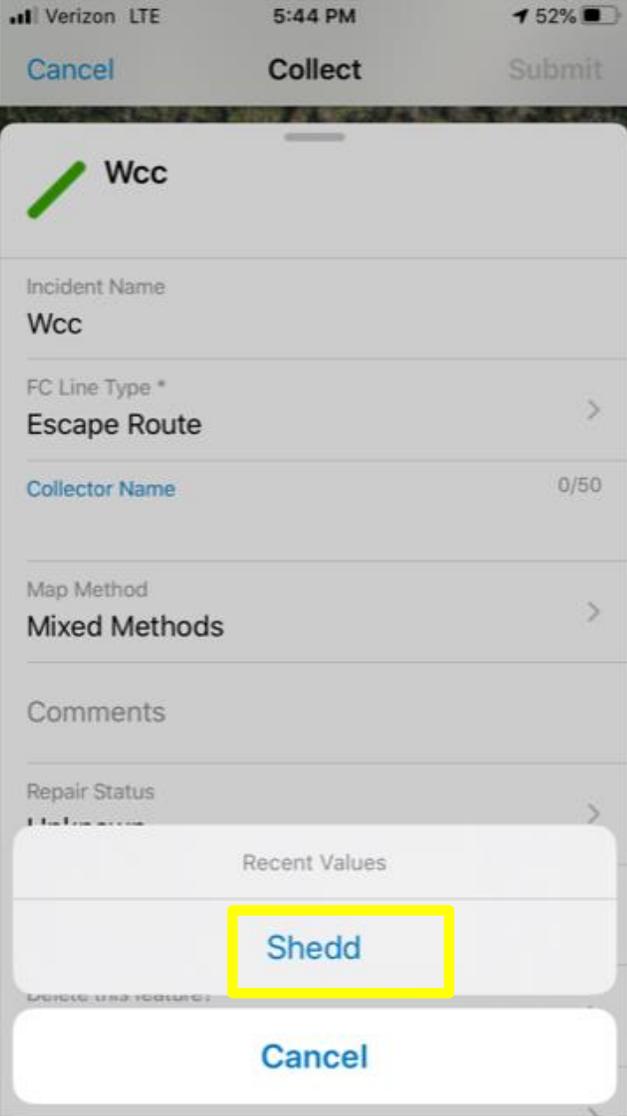
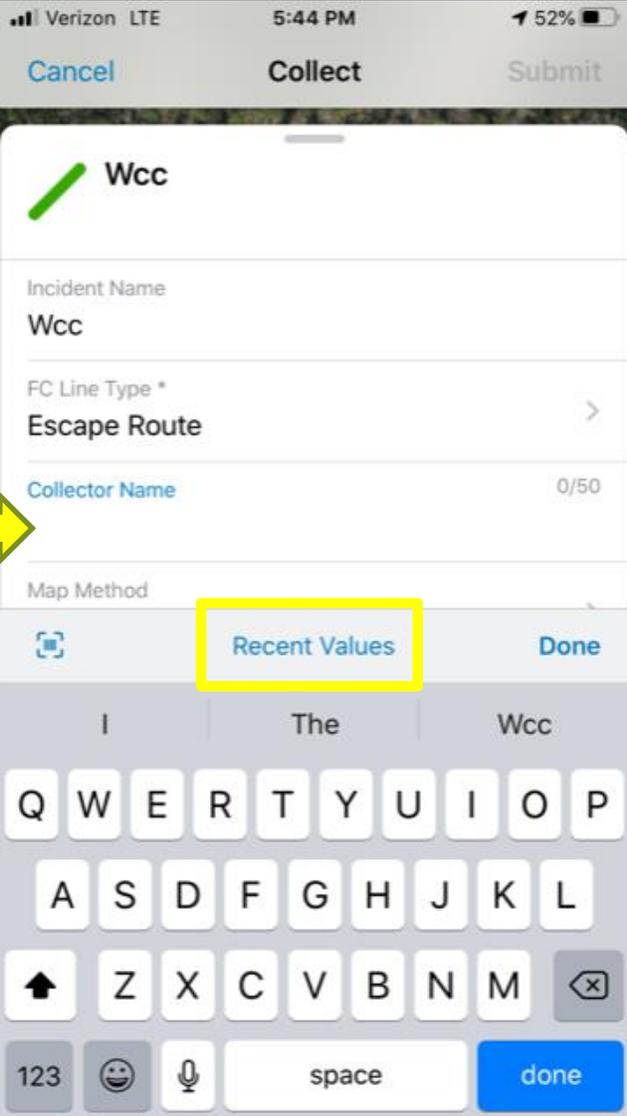
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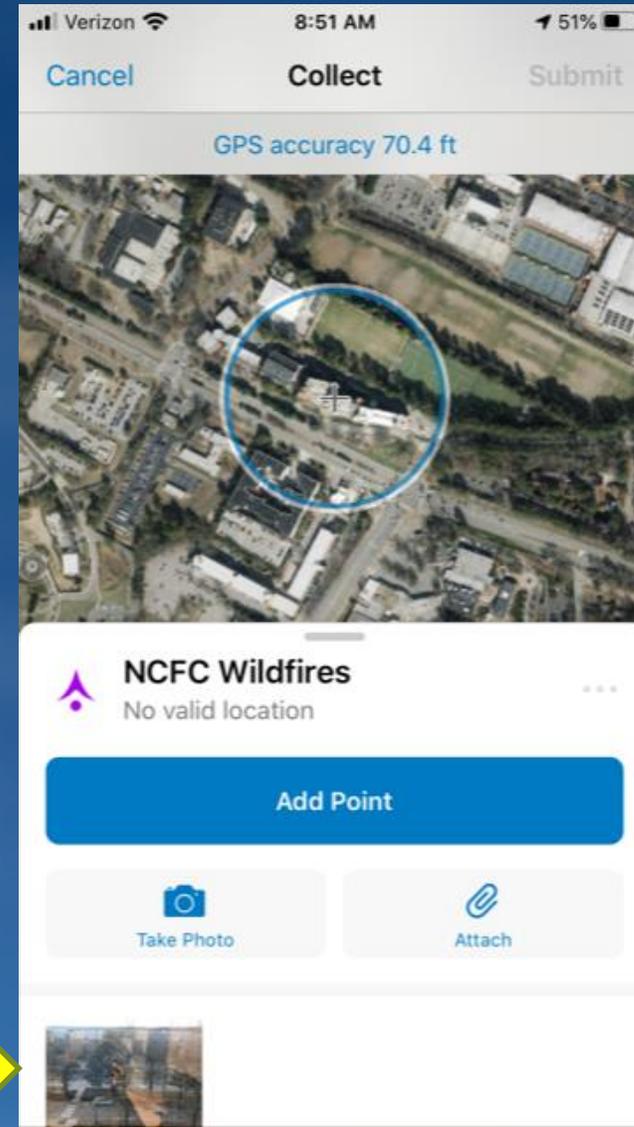
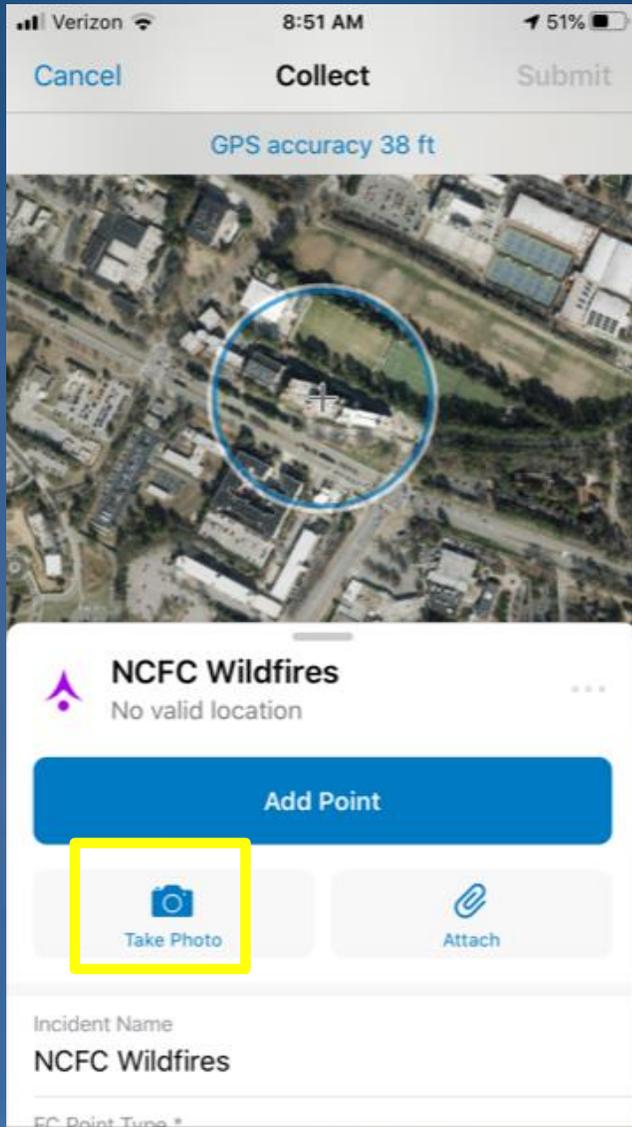
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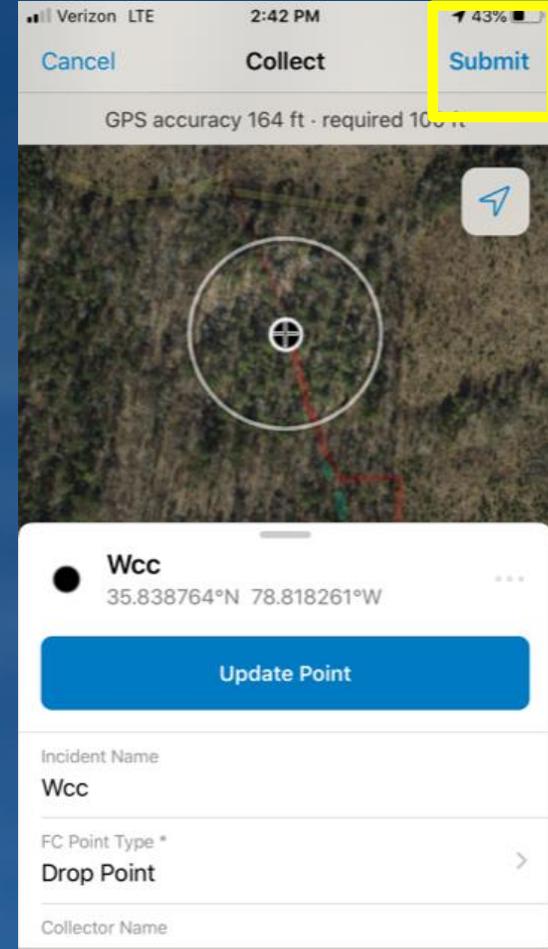
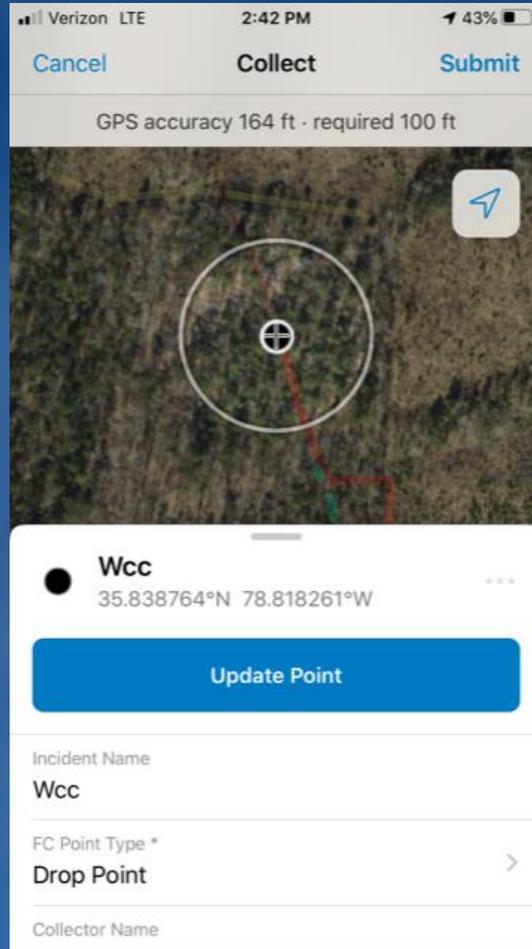
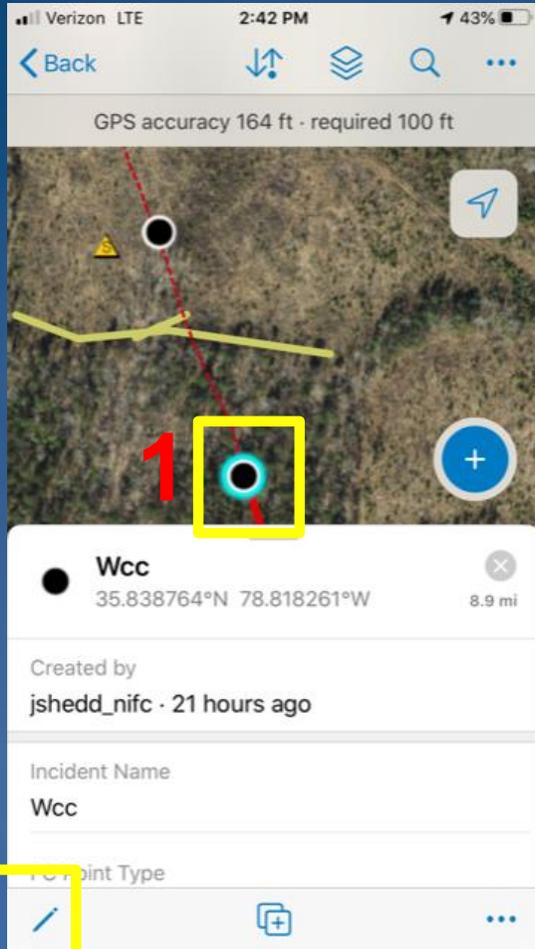
# Entering **Attribute** Values



# Adding Photos and Attachments



# Editing Existing Point/Line Features



# Data Collection Summary

## What kind of data do I collect?

### • Operations versus Rehab

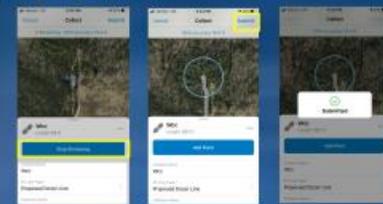
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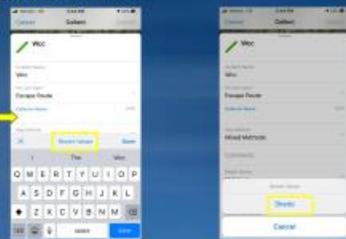
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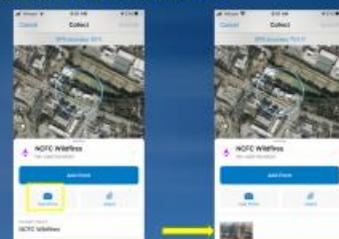
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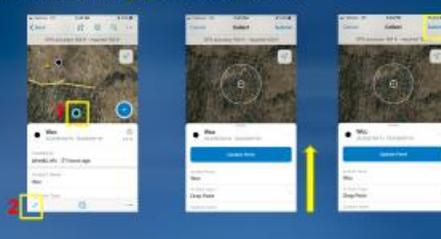
## Entering Attribute Values



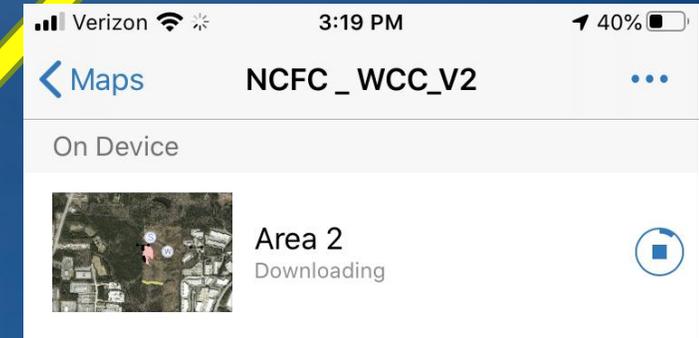
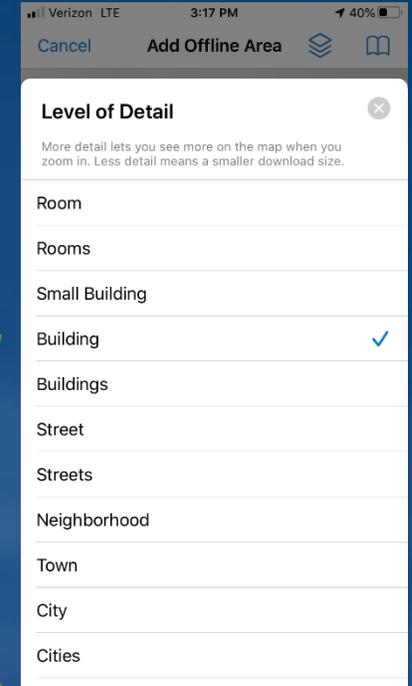
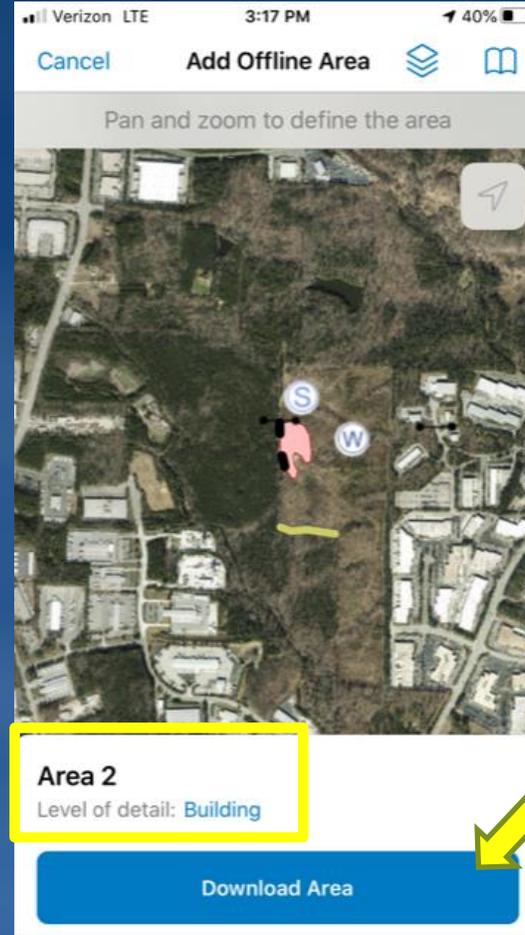
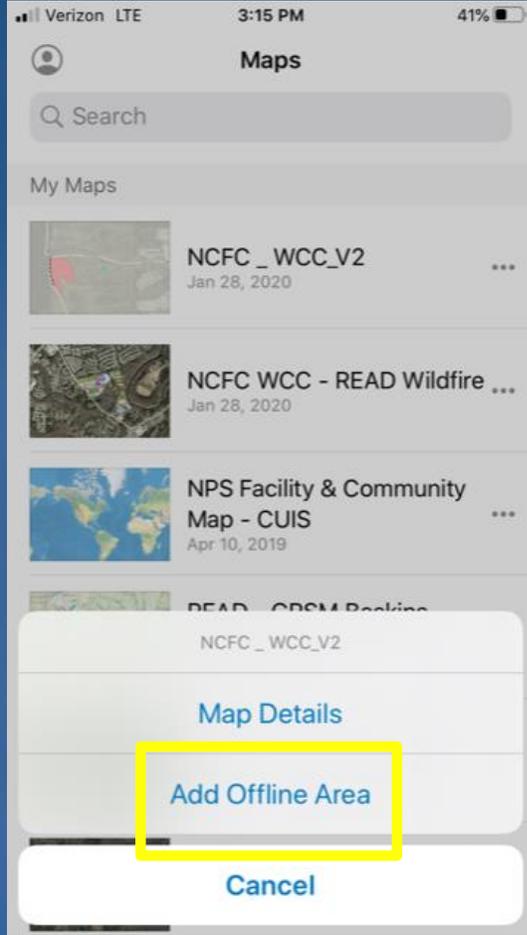
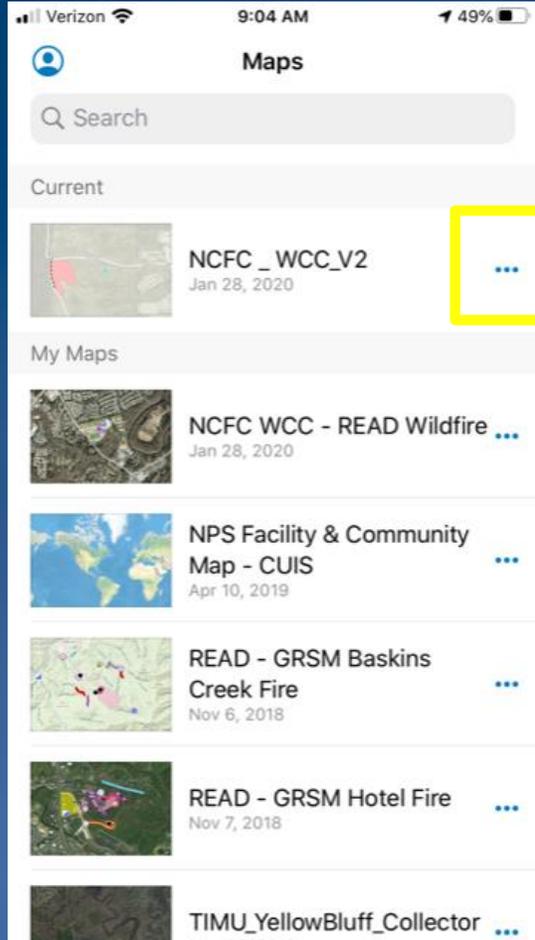
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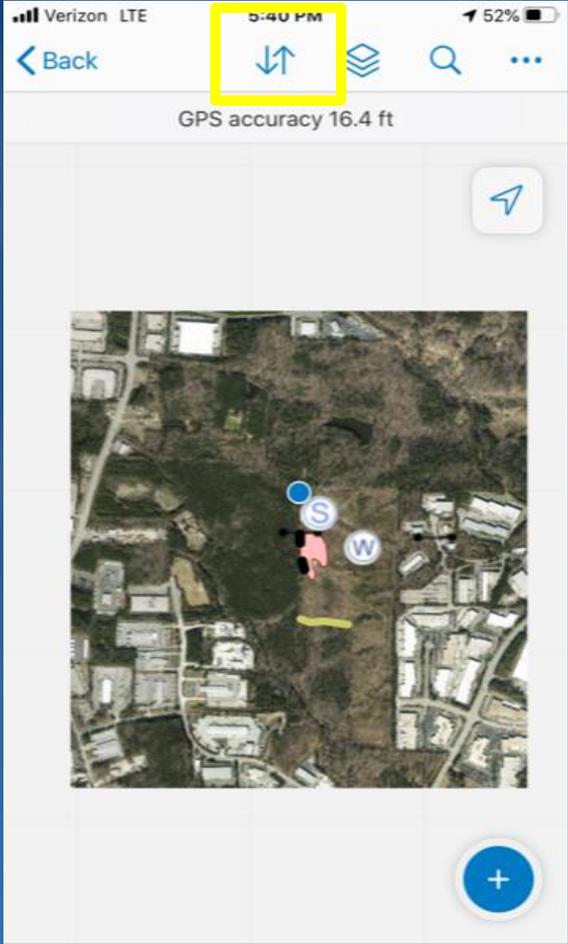
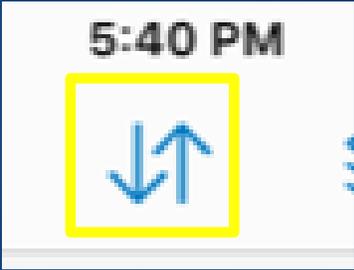
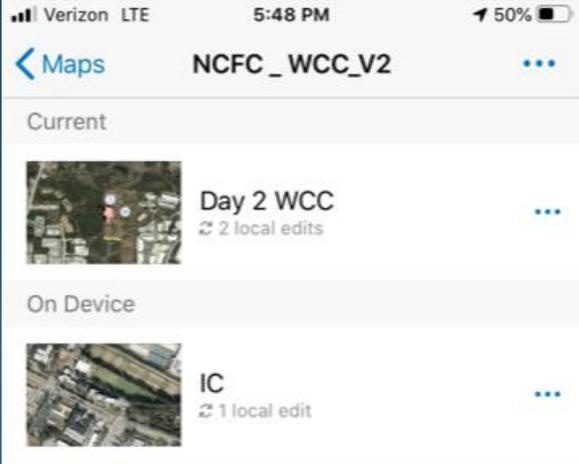
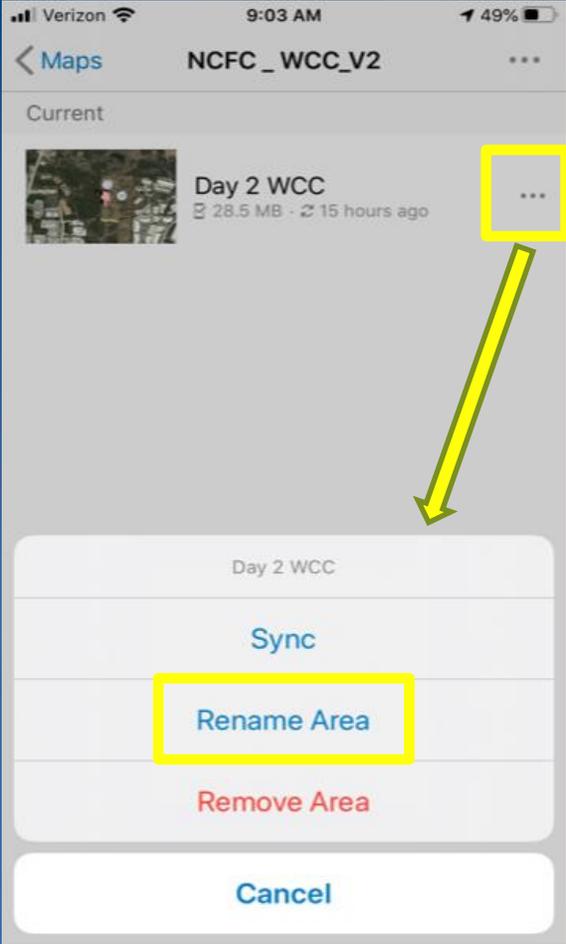
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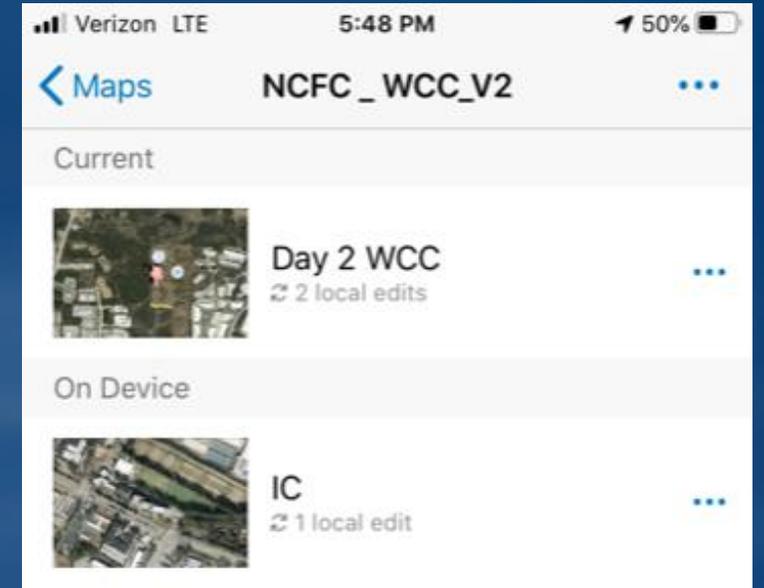
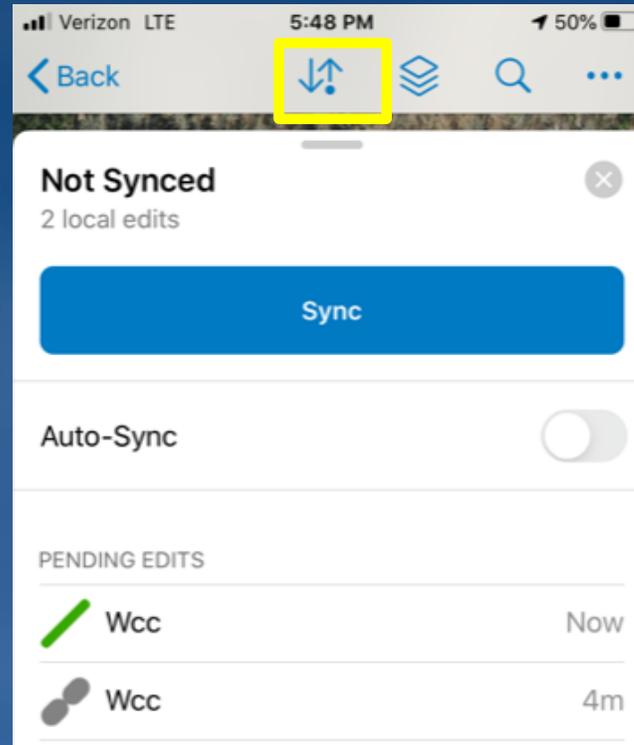
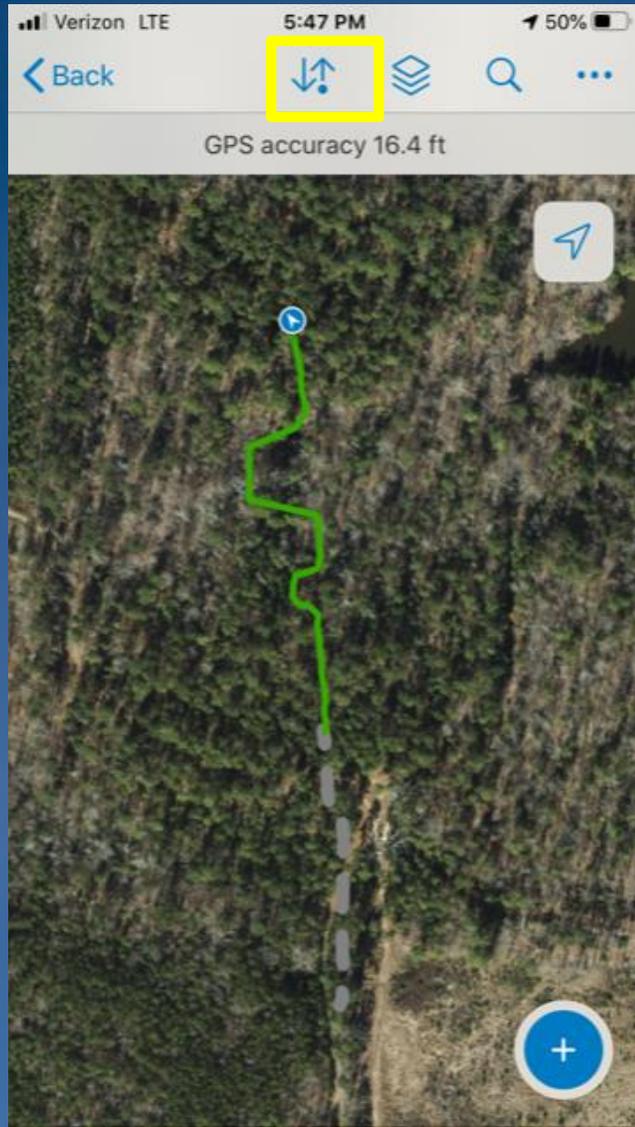
# Download Map for **Offline** Use



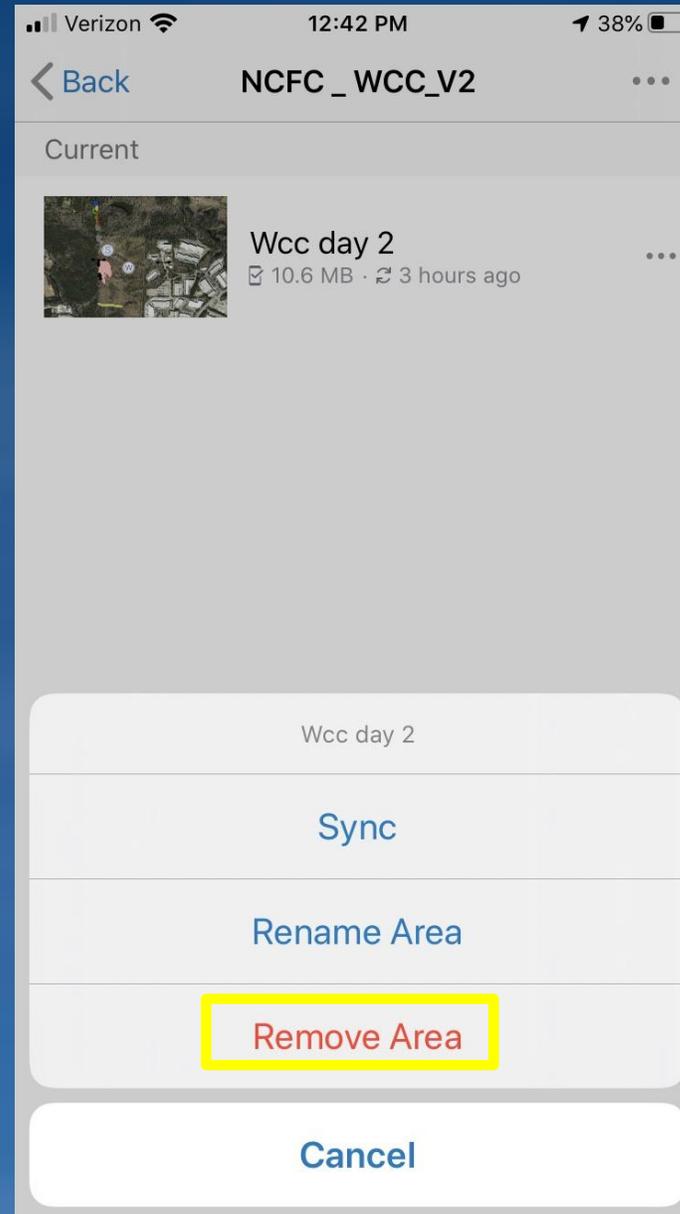
# Downloading Offline Maps



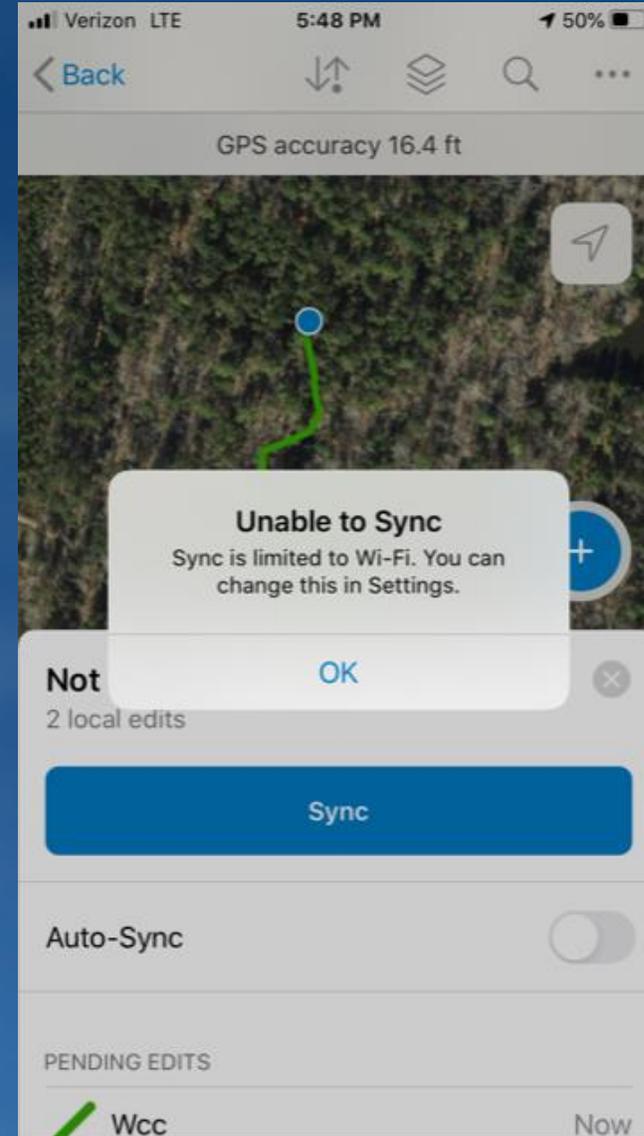
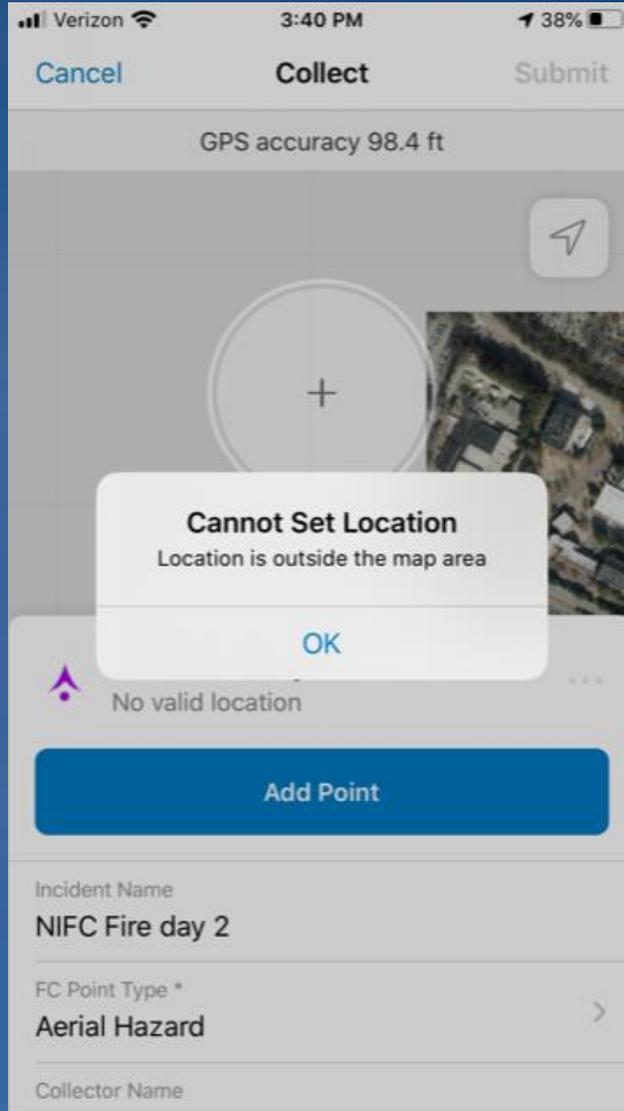
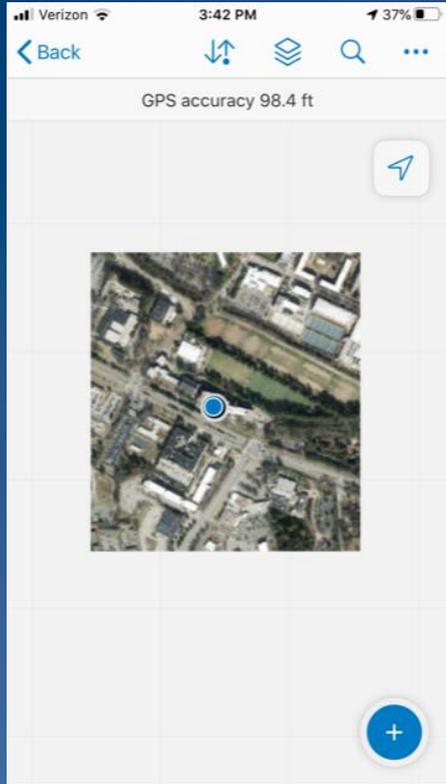
# Syncing Data from an Offline Map



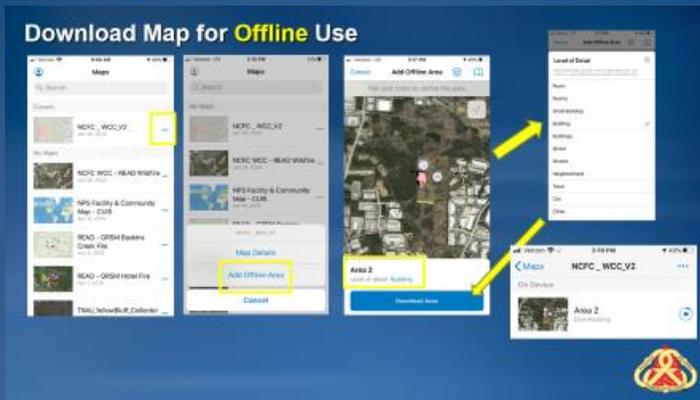
# Managing Offline Maps



# Collector Offline Maps - PROBLEMS

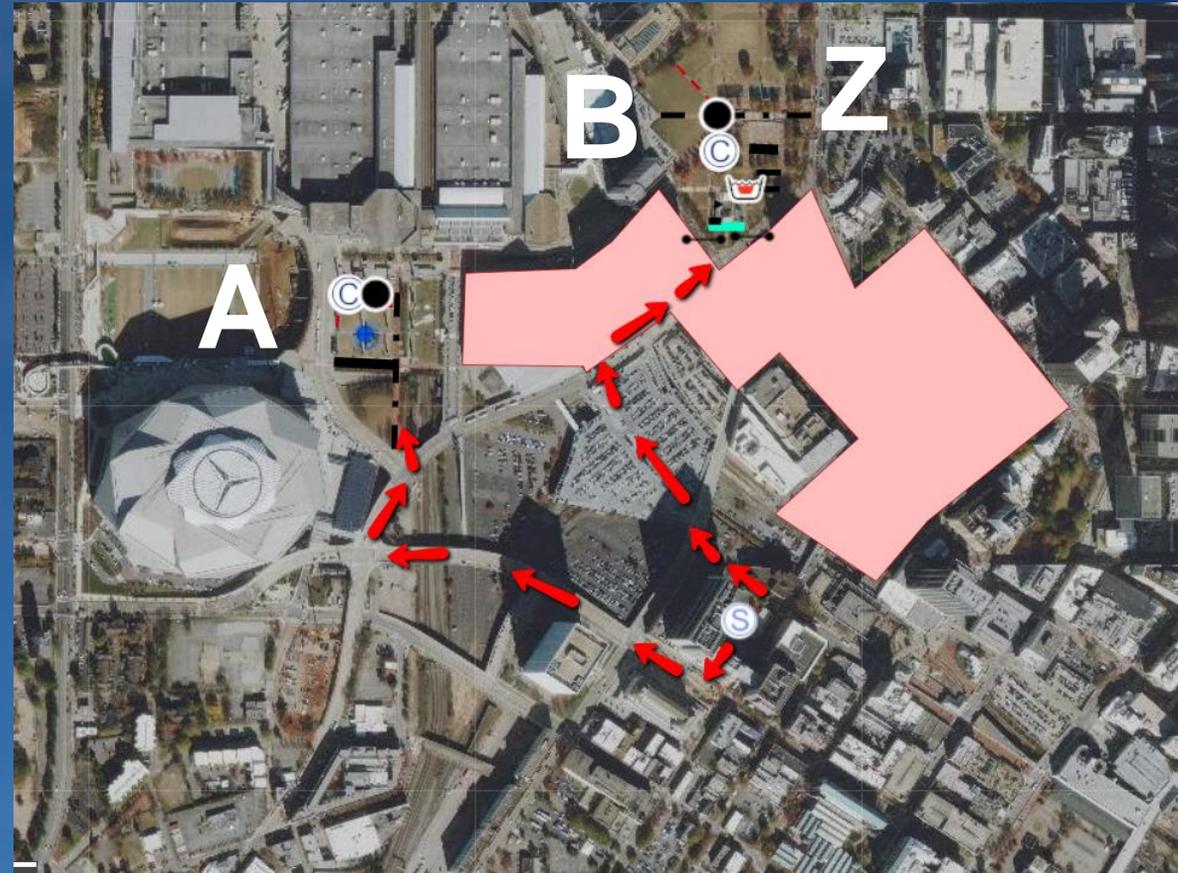


# Offline Data Collection



# In Field **Data Collection** Exercise

- Start Collector
- READ Briefing (Determine which Group (Division) you are in)
- Find you Group
- Connect to Wi-Fi
- Download your map
  - Z, then A, then B
- Turn on Airplane Mode
- Walk to area
- Collect Data
- Sync on way back



# Real World Data Collection

- **Welcome Back**



# But Why Collector?

- Singular Data Source
- Reduce Bottleneck
- Real-time stats

[Alaska Briefing Dashboard](#)

[NPS Active Management](#)

[Nevada BLM Dashboard](#)

You are viewing data for completed treatments for the current fiscal year. Use the drop down menus below to apply or remove filters for Treatment Category, Fiscal Year, NPS Region and/or Unit. For more help with filters or an explanation of the data being displayed in the dashboard, see the "How to Use the Dashboard" tab.

Fiscal Year Complete (choose one):

2019

NPS Region Code:

No Filter

NPS Unit Code:

No Filter

Treatment Category: (Filter will not apply to count of facilities with reduced risk)

No Filter

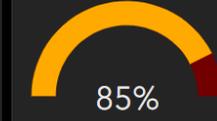
Fiscal Year Planned (filter only applies to tab for Planned Treatments):

No Filter

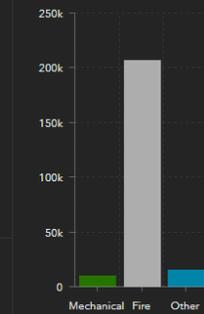
Data Source: NPS Wildland Fire and NPS Wildland Fire Facility Geodatabases.

Last Updated: 1/17/2020, 6:25 PM

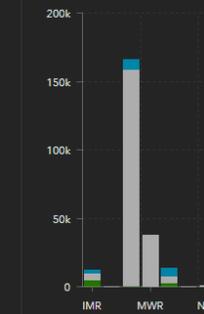
Agency Polygon Load Status



Acres Treated by Category



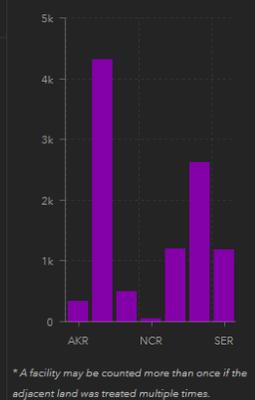
Acres Treated by Region



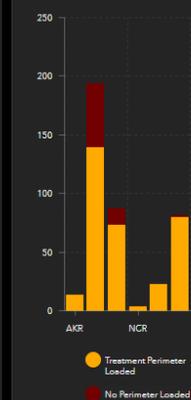
Count Facilities with Reduced Risk

10,197

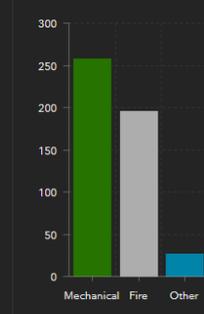
Facilities with Reduced Risk by Region



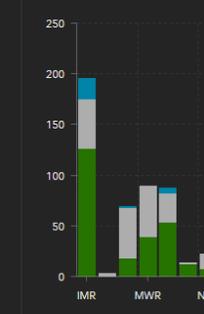
Overall Status by Region



Treatments Completed by Category



Treatments Completed by Region



Current Status | Map - Completed Treatments | Map - Planned Treatments | Reports | How to Use the Dashboard | Feedback

Nevada Wildfire Information Dashboard - Desktop

SEASON 2019 SUMMARY: fires 501, acres 83,639

Category	Fires	Acres
NATURAL	223	68,151
HUMAN	284	12,036
UNDER INVESTIGATION	74	3,452

Fires by County: Washoe (109), Clark (75), Lander (58), Douglas (45), Nye (35), Mono (25), Storey (15), Millard (10)

Acres Burned by County: Elko (35,10), Clark (14,73), Washoe (11,119), Lander (1,437), Douglas (1,119), Sierra (1,119), Carson City (1,119), Owyhee (1,119)

MAP LEGEND: Natural (Yellow), Human (Red), Under Investigation (Green)

Fires by Cause: 204 fires (Human), 223 fires (Natural), 74 fires (Under Investigation)

Acres by Cause: 68,151 acres (Natural), 12,036 acres (Human), 3,452 acres (Under Investigation)

Map shows Nevada with fire locations and county boundaries. Includes search, zoom, and map controls.

Active Fires

Fire: 001-Wildfire Mountain Overliner Status and Personnel: Active (U/U) | # 0

Narrative: Reconnaissance mission by 11N smoldering on the interior with no activity on the perimeter.

Emerging Incidents\* 0

YTD Fire Count 723

\*Reported in the last 24 hrs.

Initial Attack (IA) Protection Summary

YTD Acres | Protection Summary | Cause Summary

Map shows Alaska with fire locations and state boundaries. Includes search, zoom, and map controls.

# Resources

- NIFC Admins for Accounts [wildfireresponse@firenet.gov](mailto:wildfireresponse@firenet.gov)
- Field Resources Group on NIFC Org for ArcGIS Online Home Page  
<http://nifc.maps.arcgis.com/home/index.html>
- General ESRI Help on Collector  
<https://support.esri.com/Products/Apps/mobile-apps/ArcPad/10-2-4>
- Practice, practice, practice!



# Survey123

- Thursday Participants
- Download Survey 123 – will use NIFC AGOL Organization

